



DEFENSE INFORMATION SYSTEMS AGENCY

701 S. COURT HOUSE ROAD
ARLINGTON, VIRGINIA 22204-2199



IN REPLY
REFER TO:

TX

16 November 1993

MEMORANDUM FOR DEPUTY ASSISTANT SECRETARY OF DEFENSE
(INFORMATION MANAGEMENT), OASD(C3I)

SUBJECT: DISA FY 1994 Operating Plan in Support of DoD
Corporate Information Management

Reference: DASD(IM) Memo, Review Of DISA FY 1994 Strategic
Operating Plan, 17 Sep 93

1. Enclosure 1 is the revised Operating Plan for DISA support of the DoD Corporate Information Management initiative in FY 1994. The Plan includes two parts, combining two previously separate plans. The first part identifies activities to be undertaken by the Center for Information Management, Center for Standards, Center for Architecture, and Center for Test and Evaluation. The second part of the Plan identifies activities to be undertaken by the Center for Integration and Interoperability (CFI&I).

2. The first part of the Plan incorporates revisions requested by the reference, with the exception of the Center for Standards Program. Enclosure 2 proposes modifications to the requested implementation approach for the Center for Standards.

3. The second part of the Plan incorporates revisions requested by the reference identifying the activities to be undertaken within the available funding limits. This part of the Plan also includes additional activities that would be undertaken if additional funding, requested from OASD(C3I), is made available. These activities are in separate sections marked "Unfunded." Irrespective of issues raised in enclosure 2, parts 1 and 2 of the Plan must be approved so that the Defense Technical Integration Services (DTIS) contract can be awarded.


4. The title of the two-part Operating Plan has been revised to "DISA FY 1994 Operating Plan in Support of DoD Corporate Information Management." This title reflects the purpose of the support being provided by DISA.

Quality Information for a Strong Defense

DISA Memo, TX, DISA FY 1994 Operating Plan in Support of DoD
Corporate Information Management

5. The DISA/JIEO point of contact for this Plan is
Mr. Bob Williams at 285-5370.

2 Enclosures a/s


ALONZO E. SHORT, JR.
Lieutenant General, USA
Director

PROPOSAL FOR TRANSITION OF SUPPORT OF SECONDARY IMAGERY TRANSMISSION
AND WARFIGHTING COMMON IMAGERY STANDARDS

DASD(IM) requested that resources allocated to Secondary Imagery Dissemination and a portion of the resources allocated to Warfighting Common Information Needs and Capabilities be reallocated to the OSE program. In the past, the DASD(IM) has emphasized the need for a total DoD Information Technology Standards program supporting C3, business, and intelligence systems, and directed projects in all three areas. With that direction, the Center for Standards (CFS) has built and continues to build a total program that encompasses the needs of the command and control and intelligence communities as well as the business community. A number of people with specific skills have been hired and projects started that would be adversely affected by proposed changes to the FY 1994 Operating Plan. The skills currently possessed by these people would not readily transfer to OSE tasks. We do, however, share the desire to provide increased emphasis to the OSE standardization area and propose the following adjustments to the plan:

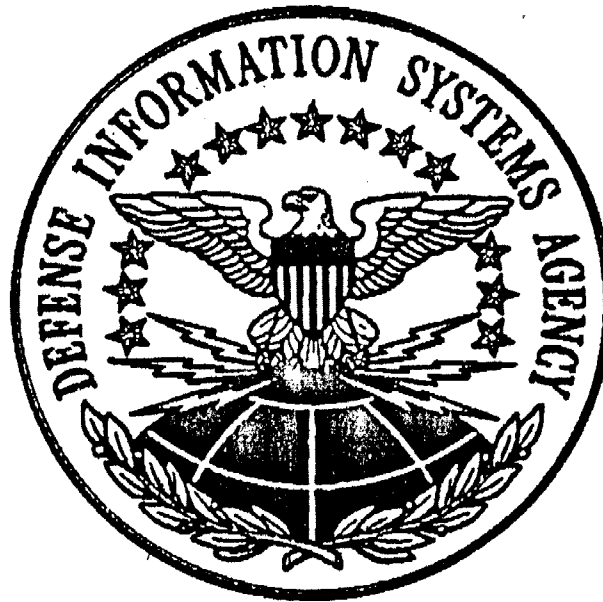
- a. Secondary Imagery Transmission Standards
 - reduce funding from \$605K to \$100K (to permit a smooth transition)
 - leave the 5 staff years in place
- b. Warfighting Common Information Needs
 - reduce funding from \$329K to \$50K (to permit a smooth transition)
 - reduce staff year from 10 to 8 (includes the 5 devoted to Data Elements)
- c. Coordinate DoD Information Technology Standards
 - reduce funding from \$587K to \$487K (as requested)
- d. Migration to an Open Systems Environment (OSE)
 - increase funding from \$1261K to \$2145K
 - increase staff years from 30 to 32

Additionally, the CFS will allocate a portion of the DMRD 918 personnel, as they arrive, to OSE standardization efforts.

This modified approach will achieve the desired emphasis on OSE standardization while enabling the most efficient use of current personnel resources. This modified approach will also maintain the momentum of our current DoD IT Standards Program Plan for which we have obtained the concurrence of the CINCs, Services and Agencies via the Standards Coordinating Committee.

Defense Information Systems Agency (DISA)

FY 1994 Operating Plan for Corporate Information Management



Part I - Includes activities of DISA JIEO / Center for Information Management, Center for Standards, Center for Architecture, and Center for Test and Evaluation

October 26, 1993

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CENTER FOR INTEGRATION AND INTEROPERABILITY

TO BE PROVIDED UNDER SEPERATE COVER



INTRODUCTION

PREFACE




The Defense Information Systems Agency's (DISA's) *FY1994 Operating Plan for Corporate Information Management* in support of the Deputy Assistant Secretary of Defense for Information Management DASD(IM) is intended to serve as the primary mechanism for guiding DISA's activities in support of the DoD's corporate IM Initiative. As such, it represents the cornerstone of a new and proactive approach to DISA's support of the DASD(IM) mission and the DoD IM community.

This plan clearly demonstrates the high degree of interdependence among DISA activities and processes and illustrates the power that this integration provides to DISA in terms of delivered capabilities. DISA is not an assortment of isolated organizations and programs. Rather, it is a collection of strategic partnerships and cross-directorate activities focused on DISA-wide success.

The *FY1994 Operating Plan for Corporate Information Management* in support of the DASD(IM) describes, at a high level, DISA organizations, activities, and customers and the interrelationships among them. Objectives for each activity are also provided, along with measurable targets that will indicate the degree to which objectives are being achieved. Resource requirements, major deliverables, and schedules are also provided.

I am confident that our team of high-quality, dedicated professionals will strengthen DISA's role as the driving force for Information Management improvements in the Department of Defense. We have an achievable plan, based on key activities and core competencies, leveraged via cross-directorate integration. Clearly, DISA is positioned to provide the capabilities required by the Department both in the short and long term.


ALONZO E. SHORT, JR.
Lieutenant General, USA
Director

SITUATION ASSESSMENT



DISA has supported the Assistant Secretary of Defense (ASD) for Command, Control, Communications, and Intelligence (C3I) with the technical and program execution assistance required to implement the DoD's corporate Information Management Initiative since March of 1991. During that time DISA has focused on improving and consolidating information management practices and systems with considerable assistance coming from the agency's Center for Information Management (CIM).

Both DISA and CIM confronted significant change during 1993. To improve operations, DISA reorganized along functional lines. As a result, CIM now reports to the Joint Interoperability and Engineering Organization (JIEO). The technical integration and architecture functions previously assigned to CIM are now the responsibility of the Center for Integration and Interoperability (CFII) and the Center for Architecture (CFA).

Organization change has, in turn, focused attention on the procedures used to direct DISA's support of the corporate IM Initiative. Current management procedures, whereby the DASD(IM) approves and assigns tasks directly to DISA organizations, has proven to be inefficient. Furthermore, the current tasking process often overlooks the high degree of integration and interdependence of DISA activities. This has frequently resulted in duplication of effort, organizational distractions, and confusion within the DoD IM community.

A new process is needed that recognizes and takes advantage of DISA's integrated IM capabilities. Correspondingly, this new process must evolve to the point that it identifies and leverages the interdependence of organizations within DISA that share IM improvement responsibility. Only then can DISA achieve its vision and become the DoD's leading provider of information systems and services.

STRATEGIC RESPONSE



This *Strategic Operating Plan* represents the first step in a new process for continued support of the corporate IM Initiative. Under this methodology, DISA will develop and submit to the DASD(IM) a plan and budget for support of the corporate IM Initiative 45 days prior to each fiscal year.

The plan will be a summary level document. It will identify major DISA activities, deliverables, schedules, and required resources for the coming fiscal year.

It is intended that the *Strategic Operating Plan* will be reviewed and ultimately approved by the DASD(IM)

before the start of each fiscal year. After that, the plan will serve as the primary mechanism to direct DISA activities that support the DASD(IM). Approval of the plan will authorize DISA to expend resources and execute tasks in support of the plan goals without further DASD(IM) concurrence.

DISA will provide quarterly status briefs on the progress of program execution to the DASD(IM). The briefs will identify obligations, expenditures, major accomplishments, and issues that must be resolved. Program adjustments to the *Strategic Operating Plan* may be made on an exception basis.



EXECUTIVE SUMMARY

PLAN OVERVIEW

Executive Summary

DISA's FY1994 Strategic Operating Plan is intended to represent all DISA organizations in support of DoD's corporate IM Initiative. As such, it represents a near-term operating plan that details planned activities, goals, objectives, and resource requirements for Fiscal Year 1994.

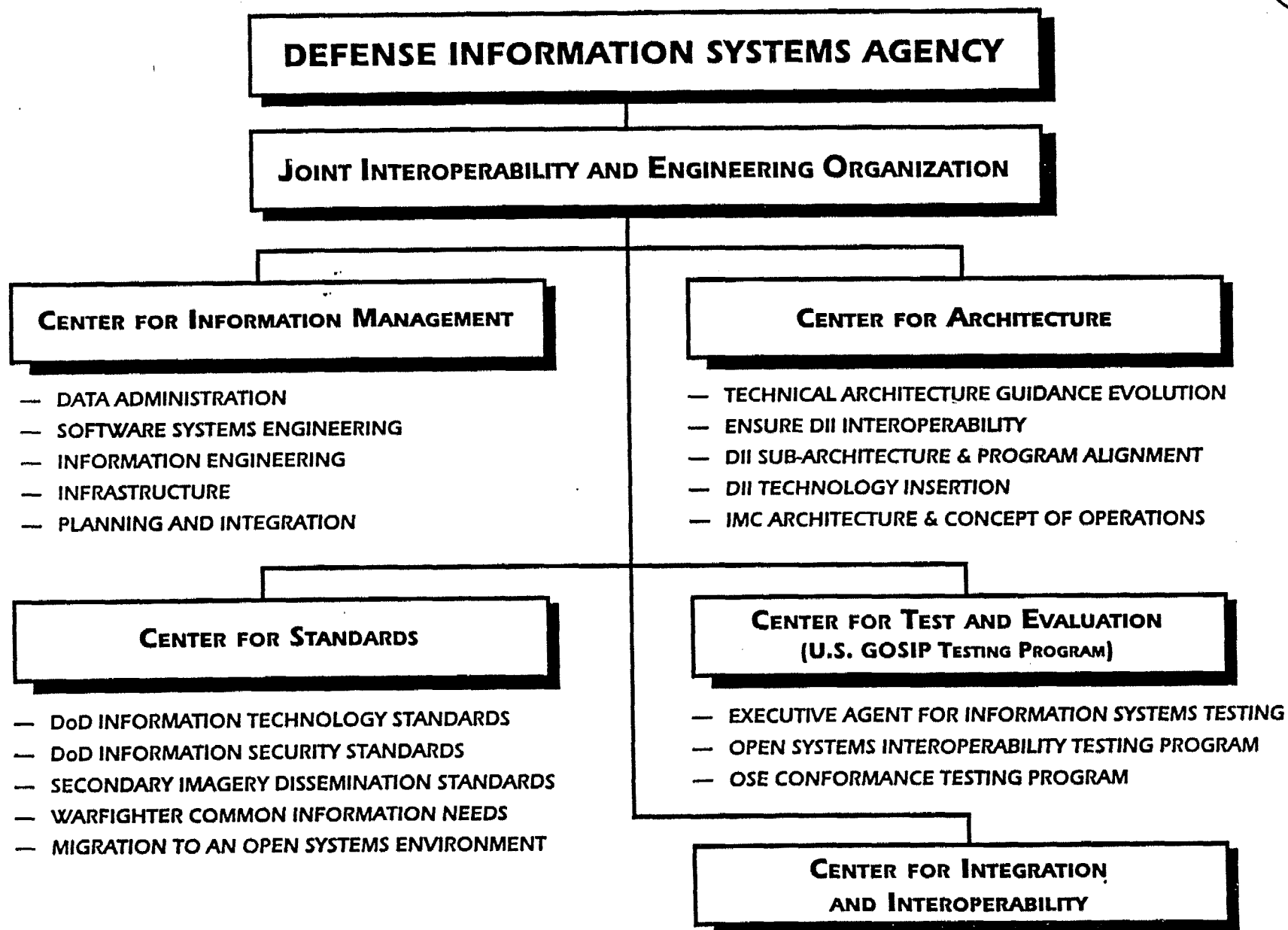
This plan also represents the beginning of a new process strategic to DISA's future support of the DASD(IM) mission and the DoD IM community. Correspondingly, subsequent editions of this plan will identify future strategies and goals for leveraging the interdependence among DISA organizations for long-term IM improvement.

Information concerning the DISA Centers and their major activities is summarized in this plan. Vision statements, mission statements, goals, and required resources are identified for each Center. Center for Information Management activities are further sub-categorized by Directorate, each of which has developed individual mission statements and goals which support CIM's overall mission and goals. Together, all of these activities and their measurable FY1994 objectives will take DISA one step closer towards corporate IM mission success.



MAJOR AREAS OF RESPONSIBILITY

Executive Summary



INTEGRATION FOCUS AREAS

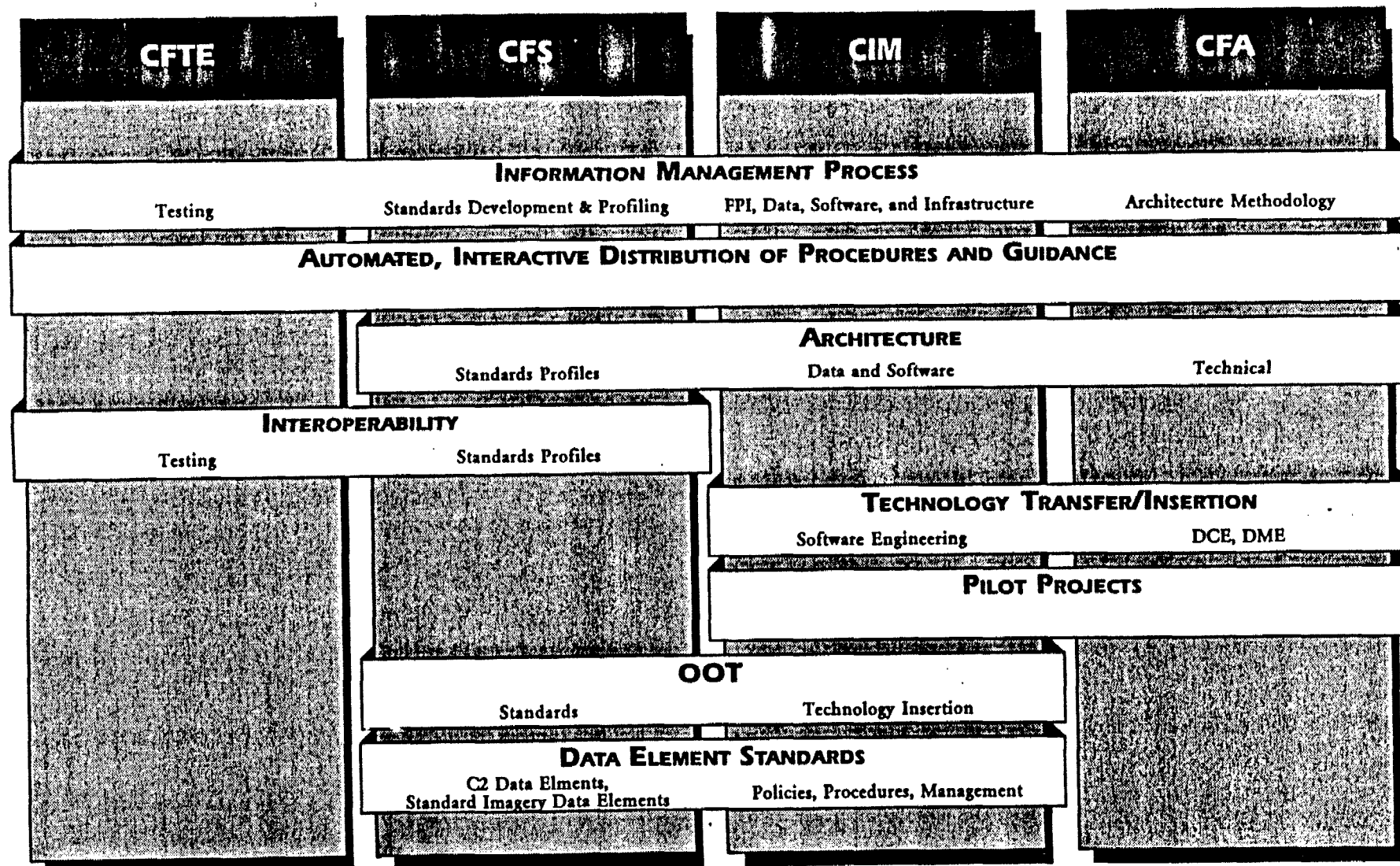
Executive Summary



It is essential that a variety of activities common across DISA organizations be performed in an integrated, coordinated fashion by the Centers supporting the corporate IM Initiative. This plan identifies these critical activities, referred to as Integration Focus Areas. In FY1994, DISA will stress cross-Center coordination within these focus areas to produce coordinated and consistent information management approaches. The diagram on the following page depicts DISA Center activities vertically. Integration Focus Areas are represented as horizontal boxes which cut across and connect various Center activities. These Integration Focus Areas are further supported at the Directorate-level within the Center for Information Management, as identified later in this plan.

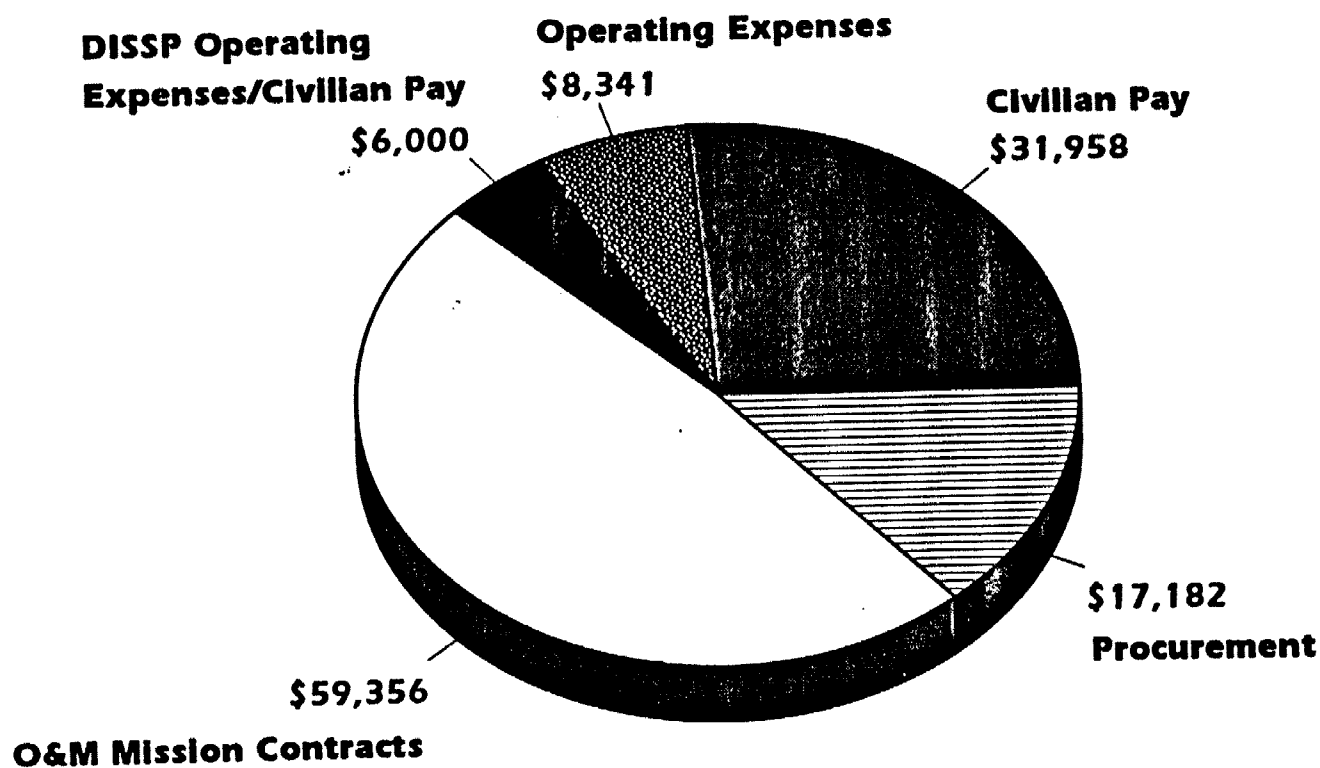
FY94 INTEGRATION FOCUS AREAS

Executive Summary



RESOURCE REQUIREMENTS — FUNDING

Executive Summary



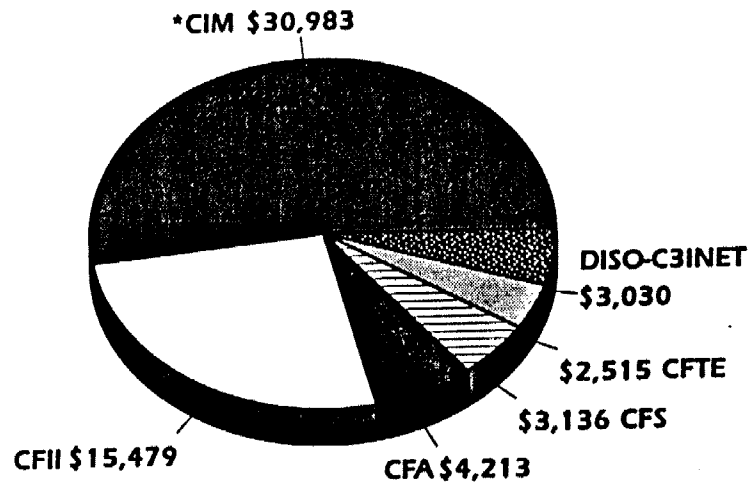
Total Funding (\$Thousands) = \$122,837

RESOURCE REQUIREMENTS — FUNDING

Executive Summary

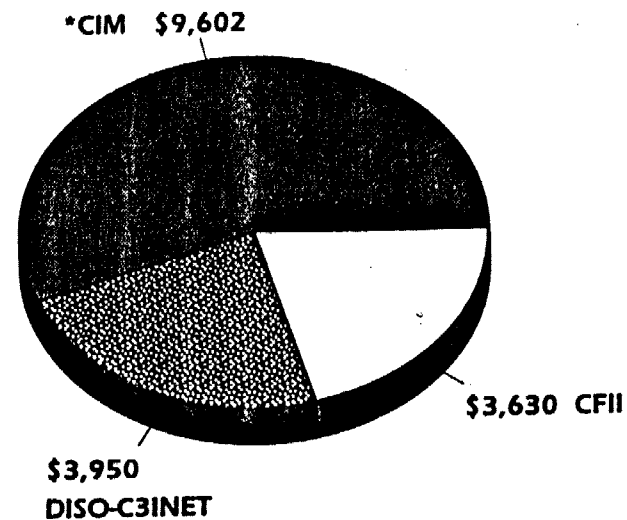


O&M



Total O&M (\$Thousands) = \$59,356
(*Includes \$5,645 for I-CASE)

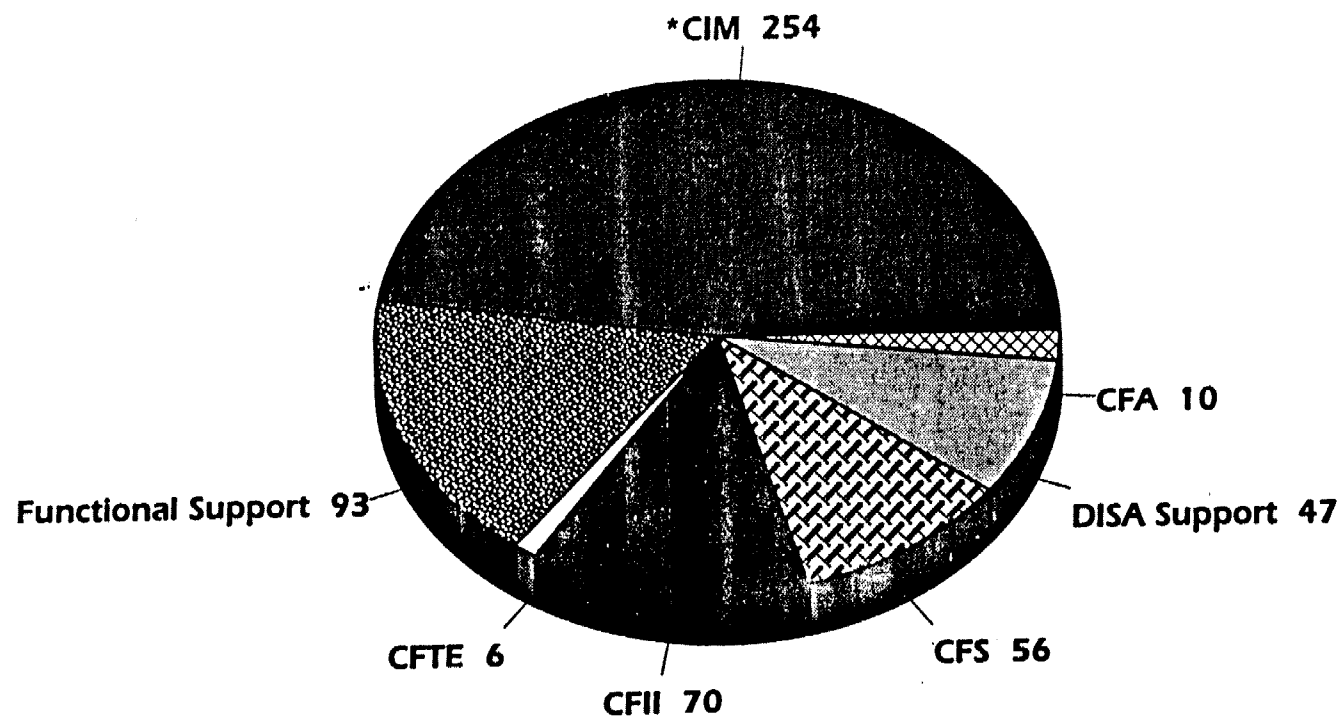
PROCUREMENT



Total Procurement (\$Thousands) = \$17,182
(*Includes \$7,475 for I-CASE)

RESOURCE REQUIREMENTS — STAFF

Executive Summary



Total Staff Years = 536

(Civilian = 526, Military = 10)

(*Includes I-CASE Support)

Note: Total does not include overhires and billets from other sources.



CENTER FOR INFORMATION MANAGEMENT



CIM OVERVIEW

VISION STATEMENT

CIM Overview



The Center for Information Management will promote the institutionalization of procedures, methods, techniques, tools, and services throughout the Department of Defense that lead to information management and business practices comparable to the best in the private sector.

MISSION STATEMENT

CIM Overview



Supports the policies and goals of the Office of the Assistant Secretary of Defense for Command, Control, Communications, and Intelligence in the implementation of efficient Information Management practices. Serves as the Department of Defense change agent to improve Information Management in the Department. Provides effective Information Management procedures, methods, techniques, tools, and services for all elements of the Department of Defense.

CENTER GOALS

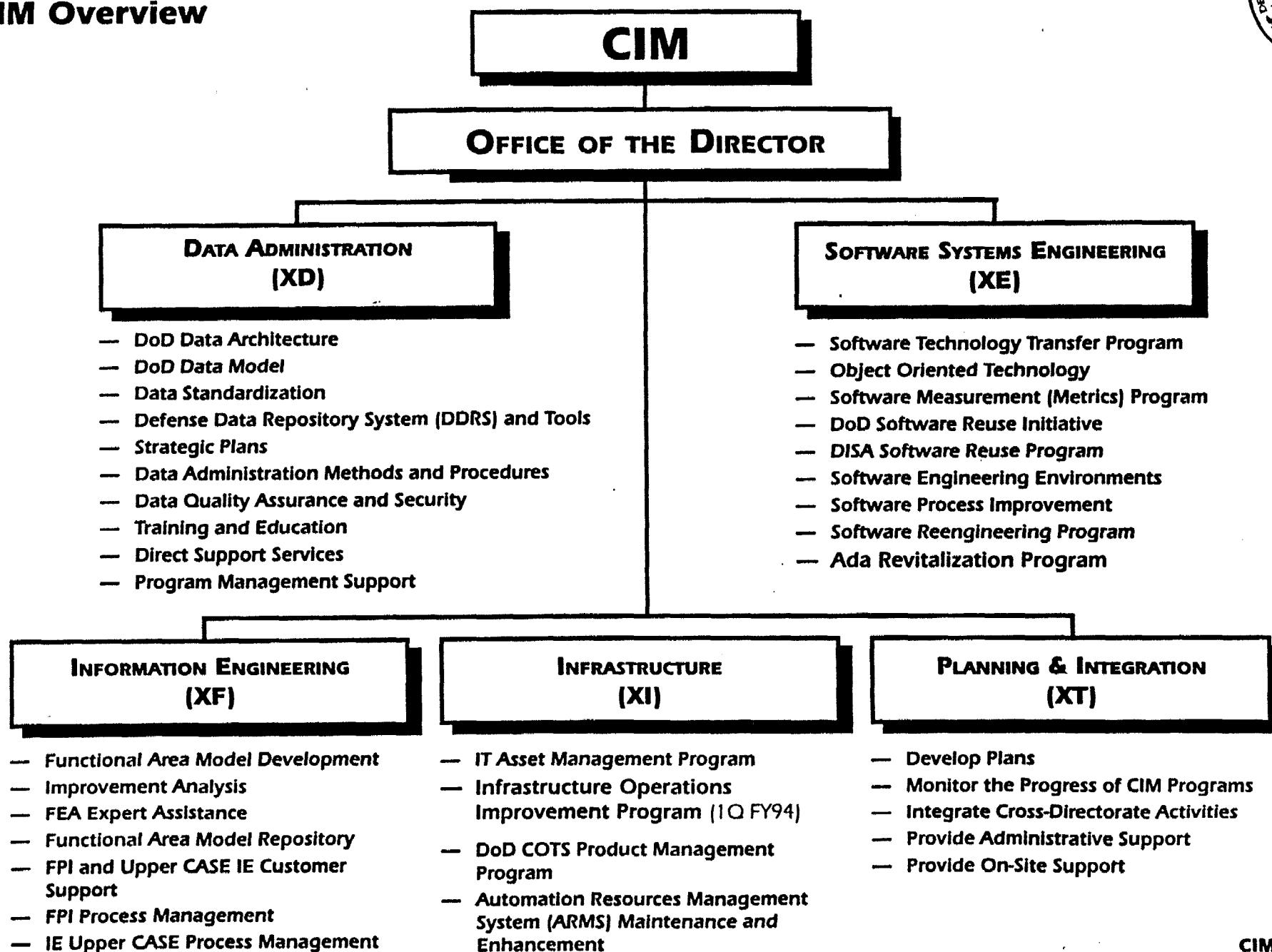
CIM Overview



- Develop and promote an integrated set of capabilities that:
 - Provides reduced annual operating costs in the functional and information management areas,
 - Improves the quality of information management capabilities relative to industry standards and business practices and,
 - Enables flexible and timely responsiveness to evolving requirements.
- Become our customers' "Supplier of Choice" for improved information management practices.
- Build an information management work force that is recognized as a leader in the industry.

ORGANIZATION AND ACTIVITIES

CIM Overview



FY94 INTEGRATION FOCUS AREAS

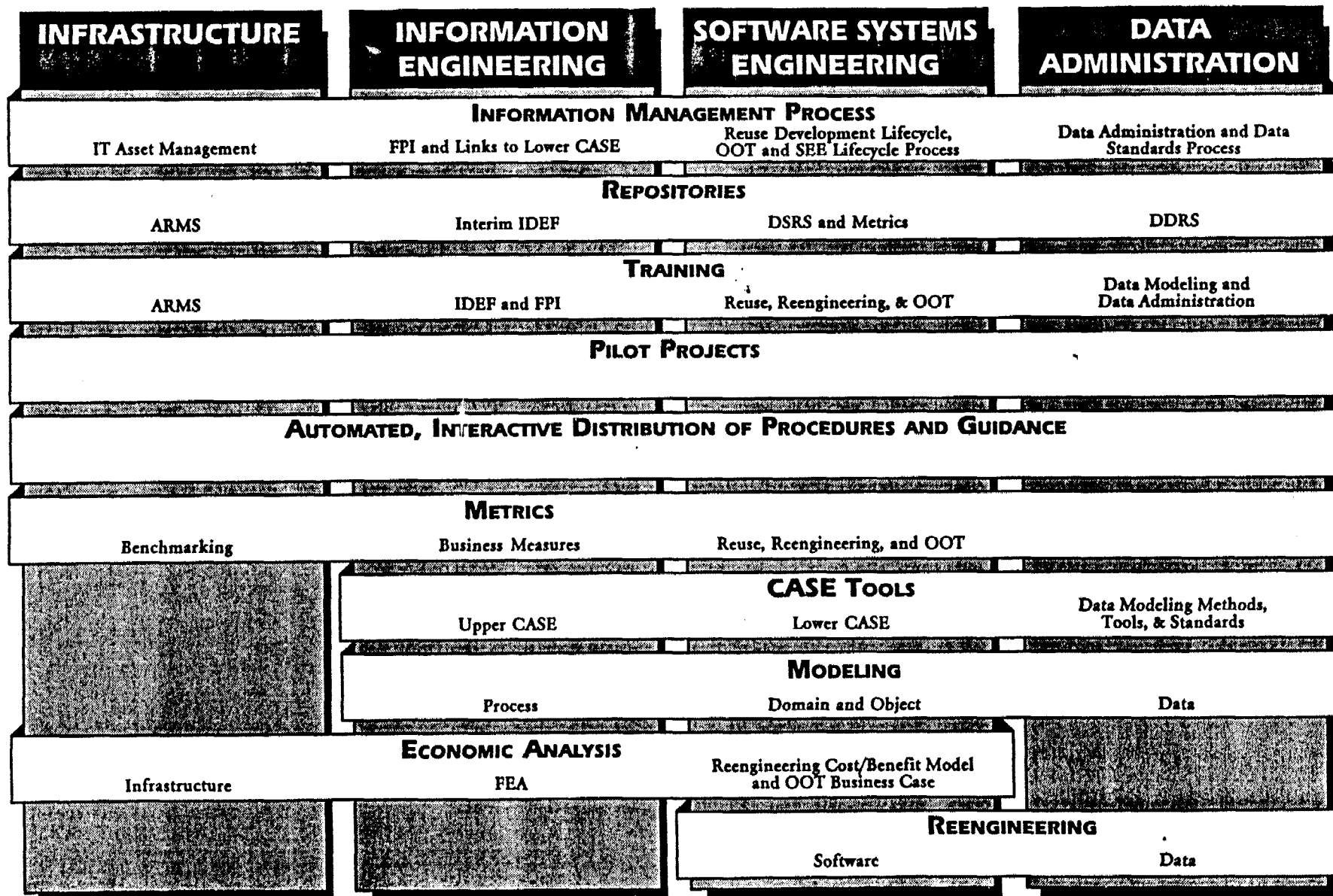
CIM Overview



To highlight activities that must be integrated across directorate boundaries, the Center for Information Management has identified Integration Focus Areas. In FY1994, CIM will stress cross-directorate interaction in these focus areas to produce coordinated and consistent information management approaches. The diagram on the following page depicts CIM directorate activities vertically. Integration focus areas are represented as horizontal boxes which cut across and connect various directorate activities.

FY94 INTEGRATION FOCUS AREAS

CIM Overview

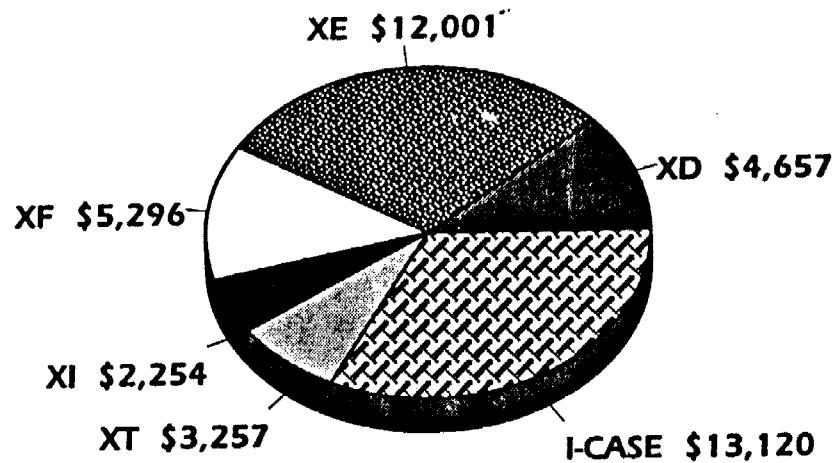


RESOURCE REQUIREMENTS

CIM Overview



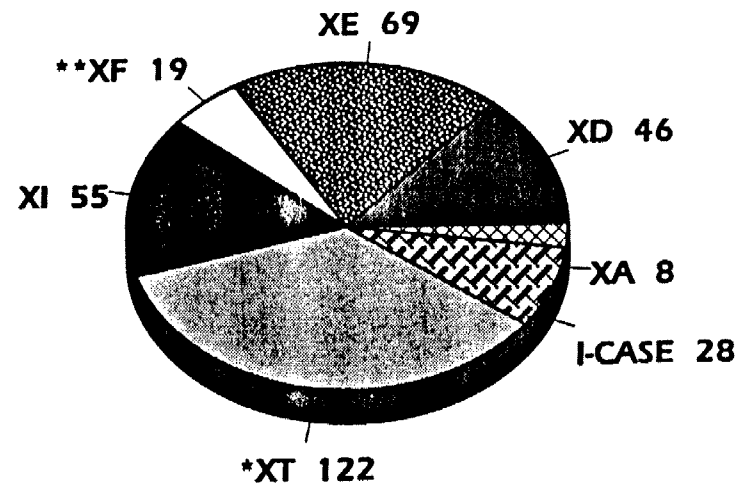
*FUNDING (\$Thousands)



Total Funding = \$40,585

*Includes O&M and Procurement

STAFF YEARS



Total Staff Years = 347

*Includes Functional Support

**Does Not Include 12 Overhires



DATA ADMINISTRATION (XD)

MISSION STATEMENT

Data Administration (XD)



Define plan, and manage the DoD Data Administration Program to promote definition, organization , operation, supervision, and protection of data within the DoD as a strategic resource.

DIRECTORATE GOALS

Data Administration (XD)



1. Lead the development of standard data (to include data entities, entity relationships, and data elements) via data models and data architectures that facilitate data sharing, reuse, single point entry and integration of DoD databases.
2. Develop and maintain a DoD data repository to centrally control the management and storage of standard data element information data usage and formats, the DoD data architecture, and the DoD Enterprise Model.
3. Cultivate and establish common procedures, methodologies, and tool suites to support the DoD data administrators, and technical support community in developing and managing standard data products throughout the information and system development life-cycles.
4. Improve the quality and security of data to support the DoD operations and decision making in terms of availability, accuracy, timeliness, integrity and need-to-know.
5. Develop and enhance data administration training, education, consultation services and materials designed to support data management goals. These services and materials will be available to a broad spectrum of practitioners within the DoD.
6. Provide leadership to and assist in establishing data administration organizations throughout the DoD to encourage the functional managers and technical support community to improve DoD data management.

GOAL SUPPORTING ACTIVITIES

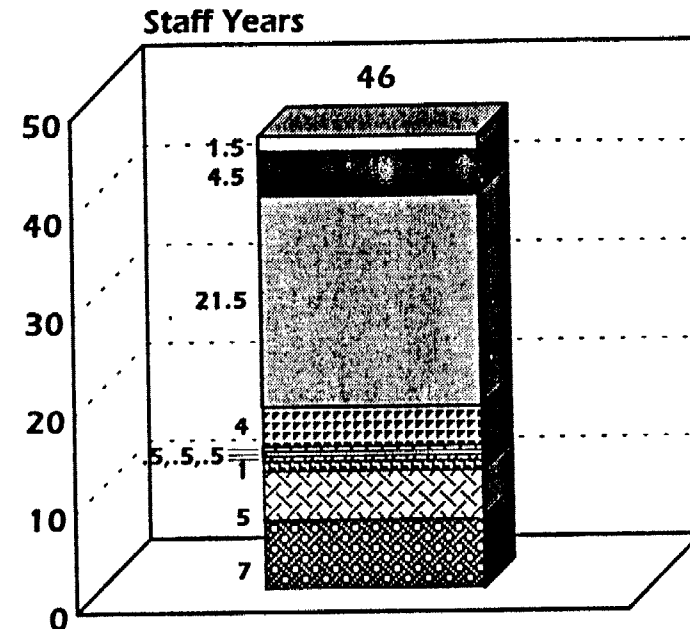
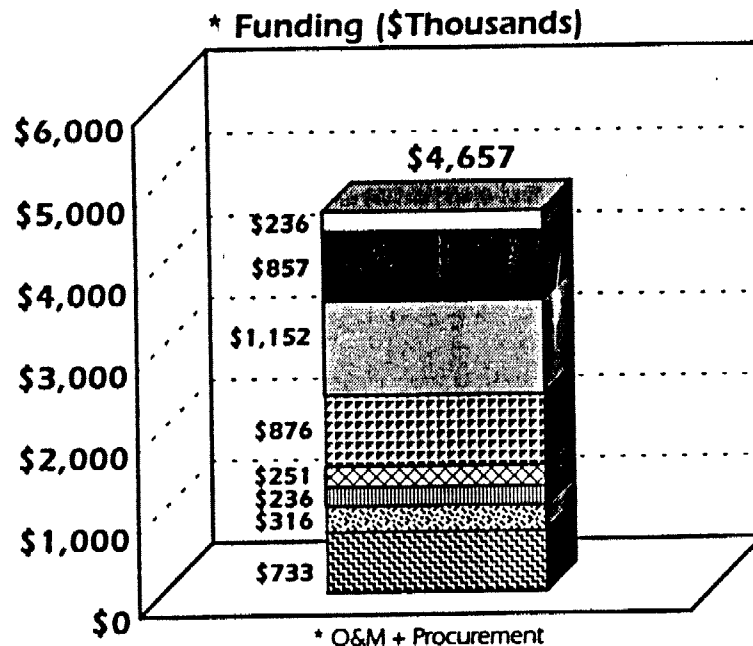
Data Administration (XD)



- **Develop and Maintain the DoD Data Architecture**
- **Extend and Maintain the DoD Data Model**
- **Facilitate Data Standardization**
- **Manage Defense Data Repository System (DDRS) and Tools**
- **Develop Strategic Plans**
- **Develop Data Administration Methods and Procedures**
- **Establish Data Quality Assurance and Security**
- **Develop and Enhance Training and Education**
- **Perform Direct Support Services**
- **Perform Program Management Support**

RESOURCE REQUIREMENTS

Data Administration (XD)



Data Administration Activities

- Develop and Maintain the DoD Data Architecture
- Extend and Maintain the DoD Data Model
- Facilitate Data Standardization
- Manage Defense Data Repository System (DDRS) and Tools
- Develop Strategic Plan(s)
- Develop Data Administration Methods and Procedures
- Establish Data Quality Assurance and Security
- Develop and Enhance Training and Education
- Perform Direct Support Services
- Perform Program Management Support

DoD DATA ARCHITECTURE

Data Administration (XD)



Directorate Goals Supported

1. Lead the development of standard data...
2. Develop and maintain a DoD data repository...
3. Cultivate and establish common procedures, methodologies, and tool suites...
4. Improve the quality and security of data...

Develop and maintain the DoD Data Architecture to guide data administration activities throughout the DoD.

Activity Objectives

Targets

— Establish DoD Data Architecture.	— 3/31/94
— Identify process improvement recommendations.	— 9/30/94
— Integrate Functional Data Models with Functional Activity Models.	— Integrate 5 models by 9/30/94.
— Define strategies for data migration legacy systems	— 9/30/94
— Recommend functional data stewardship responsibilities.	— 1/30/94
— Identify architectural control points	— Identify 12 points by 9/30/94.
— Define access and data integrity process management.	— 9/30/94
— Define subject area databases.	— Define 10 databases by 9/30/94.
— Develop and publish a technical paper on reverse engineering of data models.	— 9/30/94
— Develop and publish a technical paper on reengineering.	— 9/30/94
— Develop and publish a technical paper on data topology.	— 5/31/94

Constraints

- Funding for Acceleration Effort

DoD DATA ARCHITECTURE

Data Administration (XD)



Required Resources

Funding	Staff Yrs
\$236,000	1.5

Support of CIM Integration Focus Areas

Focus Areas	Corresponding Support
— Information Management Process	— Data Administration and Data Standards Process Approach
— Repositories	— DDRS and Interim IDEF
— Training	— Data Modeling, Standards, and Data Administration
— Pilot Projects	— Data Migration and Consolidation Into Enterprise Data Base (w/CFII)
— Automated, Interactive distribution of Procedures and Guidance	
— CASE Tools	— Data Modeling, Methods, and Standards Tools
— Modeling	— Data Modeling Methodologies
— Economic Analysis	— Reengineering Cost/Benefit Model
— Reengineering	— Data Models

DoD DATA ARCHITECTURE

Data Administration (XD)



Inputs from Affiliates		Products & Services to Consumers	
— Model Integration Proposals	— Functionals and Components	— Project Focus and Players Identified	— Model Integration Project Teams
— DoD Enterprise Model (Activity and Data Model Components)	— DAPMO Operations Groups and IESPMO/DASD(IM)	— High-Level Coordination with Other Project Teams for Configuration Management	— Model Integration Project Teams
		— Derived Subject Area Analyses	— Functional/Component Modelers and Model Integration Project Teams
		— Subject Area Clusters as Control Points of DoD Data Architecture	— Functional/Component Modelers and Model Integration Project Teams
		— Configuration Management for Enterprise Data Migration and Consolidation Into Shared Databases	— FDAs and CDAs

DoD DATA MODEL

Data Administration (XD)



Directorate Goals Supported

1. Lead the development of standard data...
2. Develop and maintain a DoD data repository...
3. Cultivate and establish common procedures, methodologies, and tool suites...
4. Improve the quality and security of data...

Integrate data models developed by the DoD functional areas with the DoD Enterprise Data Model. This activity is devoted to unifying these data models with the DoD Data Model to support the identification and definition of standard data that can be used across the DoD.

Activity Objectives

- Expand the number of integrated models/subsets.
- Establish cross-functional configuration management in the DoD Data Model.
- Create "Starter Set" Model

Targets

- Release updates quarterly.
- 3/30/94
- 1/30/94

Constraints

- Functional Community Level of Participation
- FAPMs Level of Participation
- Central Design Activities Acceptability
- Availability of Experienced Data Analysts/Modelers
- Availability of Trained Data Analysts/Modelers
- Availability of Modeling Tools
- Funding for Acceleration Effort
- Evolving Policies, Procedures, and Guidelines
- Entity Proposal Packages Submissions

DoD DATA MODEL

Data Administration (XD)



Required Resources	
Funding	Staff Yrs
\$857,000	4.5

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Process	— Data Administration and Data Standards Process
— Modeling	— Data Requirement Analysis and Integration
— Case Tools	— Data Modeling Tools and Methods
— Repositories	— DDRS and Interim IDEF

Inputs	from Affiliates	Products & Services	to Consumers
— Policy and Guidance on Creation, Management, and Use of Functional Area Data	— Functional Area Experts, FAPMs and FDAs	— Task Management Plan(s) — Management and Progress Reports	— Management — Management
— Forms, Reports, Transactions, Masterfiles, Table Layouts, Database Schema(s), and Screen Layouts	— Data Model Integration Participants	— Conference Papers and Presentation — Integrated DoD Data Model	— DoD IM Community — DoD Community
— Migration/Legacy System Data Models — Migration/Legacy System Data Dictionaries — Migration/Legacy System Documentation (e.g., FD, SS, SSS, DS, US, etc.)	— FDAs and CDAs	— Technical Assessments	— DoD IM Community

DoD DATA MODEL

Data Administration (XD)



Inputs from Affiliates		Products & Services to Consumers
— Existing Functional Area Data Models	— FAPMs and FDAAs	<ul style="list-style-type: none"> — Data Modeling Products <ul style="list-style-type: none"> — Integrated/Consolidated Entity List — Integrated Entity Descriptions — Integrated Entity-Activity and Integrated Entity-Entity Matrices — Integrated Entity-Relationship Diagram — Integrated Fully Attributed Data Model — Integrated Data Model Validation Material — Functionally Validated Integrated Data Model — DoD Data Administration Community
— Memorandum of Agreements (MOAs) and Data Exchange Agreements	— IM Community	
— Component or Command Data Models/Data Dictionaries	— CDAAs	
— Entity, Attribute, and Relationship Information	— Functional Community	
— Entity Proposal Packages	— FDAAs and CDAAs	
— DoD Enterprise Model (Activity and Data Model Components)	— DASD(IM) and CIM	

DATA STANDARDIZATION

Data Administration (XD)



Directorate Goals Supported

1. Lead the development of standard data...
2. Develop and maintain a DoD data repository...
3. Cultivate and establish common procedures, methodologies, and tool suites...
4. Improve the quality and security of data...

Support the DoD functional areas in establishing standard data that can be used across the Department to promote data sharing. Facilitate the DoD functional communities in establishing standard data through preliminary, informal, and formal reviews.

Activity Objectives	Targets
— Create "Starter Set" of interim standards.	— 1/30/94
— Develop and publish long-term Enterprise Data Harmonization Strategy Plan for shared data.	— 5/31/94
— Conduct technical reviews on entity proposal packages.	— Twelve (12) entities a week.
— Conduct technical reviews on candidate data elements.	— Seventy-five (75) to 150 a week.

Constraints

- Functional Community Level of Participation
- FAPMs Level of Participation
- Central Design Activities Acceptability
- Availability of Data Analysts/Modelers
- Availability of Trained Data Analysts/Modelers
- Availability of Modeling Tools
- Evolving Policies, Procedures, and Guidelines
- Funding for Acceleration Effort
- Entity Proposal Package Submissions
- Candidate Data Element Submissions
- Acceleration Project Approval and Start Date

DATA STANDARDIZATION

Data Administration (XD)



Required Resources	
Funding	Staff Yrs
\$1,152,000	21.5

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Process	— Data Administration and Data Standards Process
— Modeling	— Data Requirements Analysis and Integration
— CASE Tools	— Data Modeling Tools and Methods
— Repositories	— DDS

Inputs	from	Affiliates	Products & Services	to	Consumers
— Entity, Attribute, and Relationship Information	—	Functional Area Data Administration Personnel	— Task Management Plan(s) — Management and Progress Reports	—	Management
— Policy and Guidance on Creation, Management, and Use of Functional Area Data — Forms, Reports, Transactions, Masterfiles, Table Layouts, Database Schema(s), and Screen Layouts	—	Data Standardization Participants	— Conference Papers and Presentations — Data Standardization Products (e.g., Entity, Attribute, and Relationship Recommendations) — Standardized Entity Classes and Data	—	DoD IM Community DoD Functional Community
— Existing Functional Area Data Models — Migration/Legacy System Data Models	—	FDA's	— Technical Assessments	—	DoD IM Community

DATA STANDARDIZATION

Data Administration (XD)



Inputs from Affiliates		Products & Services to Consumers	
<ul style="list-style-type: none"> — Migration/Legacy System Data Dictionaries — Migration/Legacy System Documentation (e.g., FD, SS, SSS, DS, US, etc.) 	— FDAds	<ul style="list-style-type: none"> — Scrubbed Data Elements For Possible Use In Enterprise Data Development 	— FDAds
	— Suppliers and Customers	<ul style="list-style-type: none"> — Management Plans for Shared Data 	— FDAds & CDAds
— Memorandum of Agreements (MOAs) and Data Exchange Agreements	— CDAds	<ul style="list-style-type: none"> — Integrated Data Models and Data Elements for Possible Standard Data Development 	— FDAds & CDAds
<ul style="list-style-type: none"> — Component or Command Data Models/Data Dictionaries — Entity Proposal Packages — Candidate Data Elements 	— FDAds and CDAds		

DEFENSE DATA REPOSITORY SYSTEM & TOOLS

Data Administration (XD)



Directorate Goals Supported

- 2. Develop and maintain a DoD data repository...
- 3. Cultivate and establish common procedures, methodologies, and tool suites...

Manage repository software development and operations by maintaining and enhancing operational computer applications. Enhancements are defined, prioritized by the DDRS Steering Committee and then quarterly implemented in software releases. Establish data administration methodologies, and identify common tools.

Activity Objectives	Targets
— Enhance the DDRS by adding functionality.	— Quarterly releases.
— Upgrade hardware and operational support of the DDRS.	— 12/30/93
— Publish a Data Administration Tools Assessment Report.	— 5/31/94
— Publish a Common Tools Management white paper.	— 9/30/94
— Validate requirements for a full-featured DDRS.	— 12/30/93
— Develop functional description for full featured repository.	— 5/31/94
— Develop DIRS Acquisition Plan.	— 6/30/94

Constraints

- Technology Limitations
- Funding for Acceleration Effort
- FDAAs/CDAs Level of Participation
- Evolving Policies and Procedures
- CIM Cross Program Level of Cooperation

DEFENSE DATA REPOSITORY SYSTEM & TOOLS

Data Administration (XD)



Required Resources

Funding	Staff Yrs
\$876,000	4

Support of CIM Integration Focus Areas

Focus Areas	Corresponding Support
— Repositories	— DDRS
— Pilot Projects	— Defense Information Repository System (DIRS)

Inputs from Affiliates		Products & Services to Consumers	
— Policy and Guidance	— CDAs, FDAs, and DASD(IM)	— Software Enhancements	— DoD Data Administration Community
— DDRS Steering Committee Decisions	— CDAs, FDAs, Software Developers and Functional Users	— Updated System Documentation	— DDRS Steering Committee
— System Users and Management Requirements	— Component and Functional Users	— Data Administration Tools Requirements Summary	— Software Developers, Functional Users, and Data Administrators
— Existing Data Administration Tools		— Common Tools for Data Administration Environment	
— Data Administration Tools Requirements Specification			

STRATEGIC PLANNING

Data Administration (XD)



Directorate Goals Supported

6. Provide leadership to and assist in establishing data administration organizations throughout the DoD...

Develop Data Administration Strategic Plans to provide comprehensive near-term, mid-term, and long range action plans to improve the planning and management of DoD data resources.

Activity Objectives	Targets
— Develop and publish a FY94-2001 DoD Data Administration Strategic Plan.	— 3/31/94
— Develop and publish the FY95 DoD Data Administration Annual Planning Guidance.	— 9/15/94
Constraints	
— DoD Data Administrators' Level of Participation	

STRATEGIC PLANING

Data Administration (XD)



Required Resources	
Funding	Staff Yrs
\$251,000	.5

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Strategic Plans	— Data Administration

Inputs	from	Affiliates	Products & Services	to	Consumers
— FY93 DoD Data Administration Strategic Plan			— DoD Data Administration Strategic Plan		— DoD Data Administration Community
— Functionals, Components, and Command Data Administration Strategic Plan		— Principal Staff Assistants (PSAs), FDAAs, and CDAAs	— DoD Data Administration Annual Planning Guidance		

DATA ADMINISTRATION METHODS & PROCEDURES

Data Administration (XD)



Directorate Goals Supported

3. Cultivate and establish common procedures, methodologies, and tools...

Activity Objectives	Targets
— Develop and publish DoD 8320.1-M-2, Data Security Procedures.	— 7/31/94
— Develop and publish DoD 8320.1-M-3, Data Quality Assurance Procedures.	— 7/31/94
— Develop and publish DoD 8320.1-M-4, Database Administration Procedures.	— 3/31/94
— Develop draft procedures for reengineering data.	— 6/30/94
— Develop draft procedures for integrating external data standards.	— 6/30/94
— Develop and IDEF0 Model of the SDD reflecting data administration requirements.	— 6/30/94
— Develop and IDEFIX Model of the SDD DID Information /Data Element Requirements.	— 6/30/94
— Develop draft procedures for Model Integration.	— 9/2/94
— Develop draft procedures for standardization of complex data and data types.	— 9/2/94

Develop and publish data administration procedures manuals and methodologies to support the DoD Data Administration community. These procedures will provide the necessary information to improve interoperability among Information Systems.

DATA ADMINISTRATION METHODS & PROCEDURES

Data Administration (XD)



Activity Objectives		Targets
— Develop draft procedures for DoD Architecture Implementation		— 9/2/94
— Develop draft procedures for Data Administration Strategic Planning.		— 9/2/94
— Develop draft procedures for Quality Engineering of Data.		— 9/2/94
Constraints		
— Availability of Documentation		
— Availability of Technical Resources		
— Functional/Technical Experts Level of Participation		
— Funding		

DATA ADMINISTRATION METHODS & PROCEDURES

Data Administration (XD)



Required Resources	
Funding	Staff Yrs
\$236,000	.5

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
<ul style="list-style-type: none"> Automated, Interactive Distribution of Procedures and Guidance 	

Inputs	from	Affiliates	Products & Services	to	Consumers
<ul style="list-style-type: none"> Reference Materials Functional and Technical Experts' Recommendations DAPMO Project Oversight 		<ul style="list-style-type: none"> IM Community 	<ul style="list-style-type: none"> Procedure Manuals Technical and Method Guidance 		<ul style="list-style-type: none"> DoD Community

DATA QUALITY ASSURANCE & SECURITY

Data Administration (XD)



Directorate Goals Supported

- 4. Improve the quality and security of data...

Activity Objectives	Targets
— Conduct data quality baseline assessment and publish a technical report indicating results.	— Published by 12/31/93.
— Conduct quality assurance pilot project and publish a technical report indicating results.	— Published by 2/11/94.
— Conduct a DoD data security requirements review and publish a technical report indicating results.	— Published by 12/15/93.
— Identify tracking and reporting techniques for reducing the cost of poor data quality.	— Identified by 9/30/94.

Constraints

- Availability of Documentation
- Functional and Technical Experts Level of Participation

Establish common procedures, methods, and tools for data quality assurance and security to ensure that data and the information about data (i.e., metadata) are available, accurate, timely, and secure in accordance with predefined quality requirements and security standards. Supports activities for assessing and improving data and reducing costs associated with substandard and unsecured data and metadata.

DATA QUALITY ASSURANCE & SECURITY

Data Administration (XD)



Required Resources	
Funding	Staff Yrs
\$316,000	.5

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Metrics	— Data Quality Metrics and OO Data Definitions

Inputs	from	Affiliates	Products & Services	to	Consumers
— Reference Materials	—	DoD Community, Security and Intelligence Community, CISS, and NIST	— Concept of Operations Paper	—	DoD Data Administration Community, FDAAs, and CDAs
— Data Quality Methodology and Tool(s)	—	FDAAs, CDAs, QA Community, USMO	— Technical Report(s)	—	DoD Data Administration Community
— Reverse Engineered Migration System Data	—	FDAAs	— Baseline Assessment Report(s)		

TRAINING & EDUCATION

Data Administration (XD)



Directorate Goals Supported

5. Develop and enhance data administration training, education, consultation services, and materials...
6. Provide leadership to and assist in establishing data administration organizations throughout the DoD...

Activity Objectives	Targets
— Develop 11 new Data Administration modules.	— Complete new modules by 11/30/93.
— Revise and accredit Data Administration training.	— 6/30/94
— Pursue satellite training relationships.	— Establish relationships by 3/31/94.
— Establish coalition of training institutions.	— 6/30/94

Constraints

- No Government Instructors
- Evolving Policies and Procedures
- Adequate Training Facilities
- Subject Matter Experts Level of Participation
- Communicating Changes to Instructors
- Funding

Train and educate DoD personnel in the concepts, procedures, and methods necessary to establish and implement DoD Data Administration training aimed at improving understanding, communications, and acceptance of new roles and responsibilities of members in the DoD Data Administration community.

TRAINING & EDUCATION

Data Administration (XD)



Required Resources	
Funding	Staff Yrs
\$733,000	1

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Training	— Data Modeling, Standards, and Data Administration

Inputs	from	Affiliates	Products & Services	to	Consumers
— Reviews/Comments on Course Modules		— DAPMO Staff, FDAs, and CDAs	— Course Development Methodology		— DAPMO Training Staff and Developers
— Reference Materials		— NIST, Center for Data Administration Policy and Guidance Standards, SEE	— Training Material		
— Training Materials		— CIM Staff, DoD Training Institutes, and DoD Components	— Training Courses		— DoD Data Administration Community
			— Continued Education Unit (CEU) Accreditation for Training Courses		

DIRECT SUPPORT SERVICES

Data Administration (XD)



Directorate Goals Supported

6. Provide leadership to and assist in establishing data administration organizations throughout the DoD...

Activity Objectives	Targets
— Identify situation assessments.	— 12/31/93
— Perform planning/implementation reviews.	— 12/31/93
— Develop and publish initial migration strategy plan.	— 12/31/93
— Expand the number of Logical Data Models identified.	— Identify 10 models by 9/30/94.
— Expand the number of Legacy Systems reengineered.	— Reengineer 1 system by 9/30/94.
— Assessment of the maturity of FDA's and CDAs Data Administration Program implementation and assistance to accelerate their program.	— 12/31/93
— Develop a database of FDA and CDA accomplishments for shareability.	— 3/31/94

Constraints

- Functional and Technical Experts Level of Cooperation
- Functional and CIM Funding for Acceleration Effort
- Availability of Functional Expertise
- Availability of Current Systems Documentation
- Evolving Policies and Procedures
- Functional Area Data Administration Strategic Plan

Consultation services will be offered to assist and ensure that Functional Data Administrators (FDA's) and the Component Data Administrators (CDAs) are working toward the purpose of managing data as a corporate asset. Customer support consists of assisting business areas in migrating from the current heterogeneous environment by leveraging the legacy systems to reengineer a modernized environment which supports the DoD data standardization program.

DIRECT SUPPORT SERVICES

Data Administration (XD)



Required Resources	
Funding	Staff Yrs
\$0	5

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Process	— Data Administration and Data Standards Process
— Reengineering	— Data

Inputs	from	Affiliates	Products & Services	to	Consumers
— Current System Documentation	—	System Developers	— Logical Data Model Candidates	—	DoD Data Administration Community and FPI Project Personnel
— Current Reference Materials	—	FDAs and CDAs	— Candidate Standard Data Elements	—	FPI Project Personnel
— Existing Business Area Models	—		— Migration Strategy Plan	—	FDAs and System Developers
— Current Business Practices	—		— Technical Assessments	—	DoD Data Administration Community
— Future Systems Requirements	—		— White Paper(s)	—	

PROGRAM MANAGEMENT SUPPORT

Data Administration (XD)



Directorate Goals Supported

- Supports all Data Administration goals.

Activity Objectives	Targets
— Develop and maintain acquisition packages.	— As required.
— Receive, track, and respond to correspondence and management action items.	— As required or directed.
— Establish and track budget requirements.	— As required.
— Develop briefings for higher echelons.	— As required.
Constraints	

PROGRAM MANAGEMENT SUPPORT

Data Administration (XD)



Required Resources	
Funding	\$0
Staff Yrs	7

Support of CIM Integration Focus Areas	
Focus Areas	
Corresponding Support	

Inputs from		Affiliates	
	— Briefings		— Contracts
	— DASD(I/M), DISA, JIEO, CIM		— DoD Data Administration Community
Products & Services to		Consumers	



SOFTWARE SYSTEMS ENGINEERING (XE)

MISSION STATEMENT

Software Systems Engineering (XE)



Accelerate the adoption and integration of proven processes, methods, and tools for the economical production and management of software throughout DoD. Investigate emerging technologies and leverage those that are effective. Become the DoD “Supplier of Choice” for software engineering technology.

DIRECTORATE GOALS

Software Systems Engineering (XE)



1. Coordinate the definition and implementation of a DoD infrastructure to support effective software engineering.
2. Provide a foundation and remove impediments to sound software engineering practices throughout the DoD.
3. Assist software development organizations insert and transition to appropriate software technologies.
4. Develop, coordinate, and recommend DoD policies, procedures, and guidelines for effective software engineering.
5. Integrate software engineering activities with the various CIM technologies and programs.

GOAL SUPPORTING ACTIVITIES

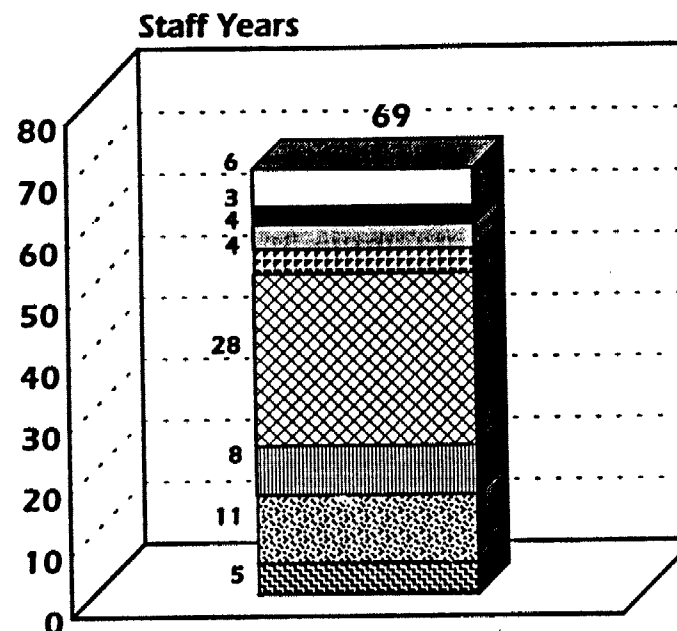
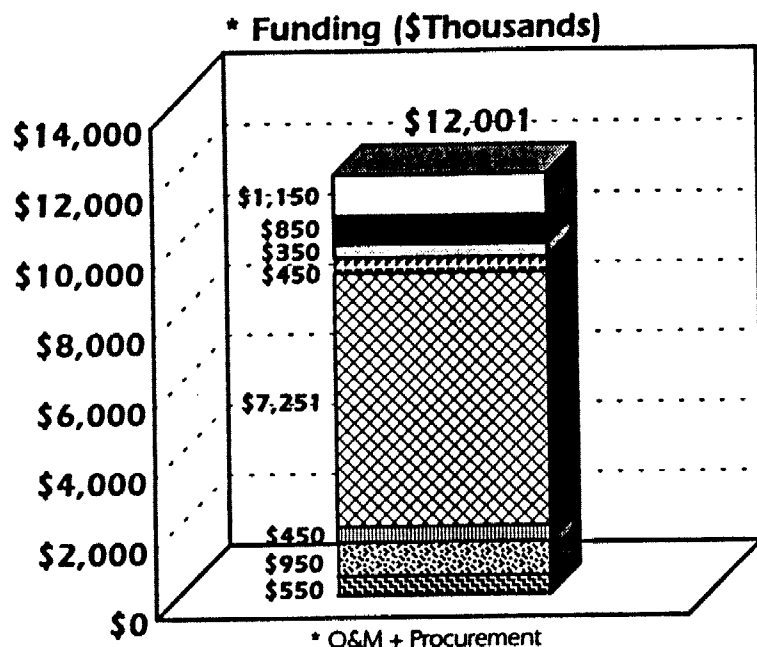
Software Systems Engineering (XE)



- Software Technology Transfer Program
- Object Oriented Technology
- Software Measurement (Metrics) Program
- DoD Software Reuse Initiative
- DISA Software Reuse Program
- Software Engineering Environments
- Software Process Improvement
- Software Reengineering Program
- Ada Revitalization Program

RESOURCE REQUIREMENTS

Software Systems Engineering (XE)



Software Systems
Engineering Activities

- Software Technology Transfer Program
- Object Oriented Technology
- Software Measurement (Metrics) Program
- DoD Software Reuse Initiative
- DISA Software Reuse Program
- Software Engineering Environments
- Software Process Improvement
- Software Reengineering
- Ada Revitalization Program (Resources to be determined pending transfer of the Ada Joint Program Office)

SOFTWARE TECHNOLOGY TRANSFER PROGRAM

Software Systems Engineering (XE)



Directorate Goals Supported

1. Coordinate the definition and implementation of a DoD Infrastructure to support effective software engineering.
2. Provide a foundation and remove impediments to sound software engineering practices throughout the DoD.
3. Assist software development organizations insert and transition to appropriate software technologies.
5. Integrate software engineering activities with the various CIM technologies and programs.

Defines and supports the implementation of a software engineering technology transfer program for use throughout DoD.

Activity Objectives	Targets
— Improve the management and coordination of the I-CASE technology transfer program.	— 3/31/94
— Improve the operational support provided to I-CASE pilot projects.	— 2/28/94
— Implement a technology transfer educational workshop.	— 2/28/94
— Develop and support the implementation of I-CASE technology transfer throughout DoD.	— 7/31/94
— Establish the capability to rapidly transfer software technology.	— 5/31/94
Constraints	
— I-CASE Contract Award	
— Dynamic Political Environment Surrounding I-CASE	

SOFTWARE TECHNOLOGY TRANSFER PROGRAM

Software Systems Engineering (XE)



Required Resources	
Funding	Staff Yrs
\$1,150,000	6

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Training	— Produce the I-CASE Model for CIM After Pilot Projects
— CASE Tools	— Develop the Model for Use by Data Administration (XD) and Information Engineering (XF)

Inputs	from	Affiliates	Products & Services	to	Consumers
— Continued Commitment to I-CASE	—	Senior Level Management	— I-CASE Technology Transfer Program Plan	—	ASDC3I, I-CASE PMO, CIM
— Concept of Operations (CONOPS)	—	I-CASE PMO	— I-CASE Vision and Strategy Document	—	ASDC3I, I-CASE PMO, CIM, CDAs, Pilots
— Consistent and Universal Vision of a "CIMized" CDA	—	CIM	— I-CASE Project Managers Conference	—	ASDC3I, Pilots
			— Customer Guidelines for I-CASE Implementation	—	Pilots
			— I-CASE Successes Report	—	ASDC3I, I-CASE PMO, CIM, CDAs, Pilots
			— I-CASE Products Commercialization Report	—	ASDC3I, CIM, CDAs

SOFTWARE TECHNOLOGY TRANSFER PROGRAM

Software Systems Engineering (XE)



Inputs from Affiliates		Products & Services to Consumers
		— I-CASE Pilot Project Readiness Assessment and Implementation Assistance
		— Pilots
		— I-CASE Pilot Project Customer Assistance Report
		— CIM, Pilots, CDAs
		— I-CASE Users' Group Meeting
		— Pilots
		— TTP Questionnaire Analyses Reports
		— ASDC3I, CIM, I-CASE PMO
		— TTP Workshops (3 Courses, 4 Offerings)
		— Pilots, CDAs
		— TTP Products and Services Guide
		— Pilots, CDAs
		— TTP I-CASE Software Technology Conference
		— ASDC3I, Senior Management, I-CASE PMO, CDAs, Industry

OBJECT ORIENTED TECHNOLOGY

Software Systems Engineering (XE)



Directorate Goals Supported

1. Coordinate the definition and implementation of a DoD infrastructure to support effective software engineering.
2. Provide a foundation and remove impediments to sound software engineering practices throughout the DoD.
3. Assist software development organizations insert and transition to appropriate software technologies.
4. Develop, coordinate, and recommend DoD policies, procedures, and guidelines for effective software engineering.
5. Integrate software engineering activities with the various CIM technologies and programs.

Plan, manage, and promote the appropriate insertion of Object Oriented Technology (OOT) into the DoD community.

Activity Objectives		Targets
— Develop a concept of operations for OOT software development.		— 1/30/94
— Establish DoD test bed sites to conduct controlled studies of technical issues in an actual work environment.		— 3/31/94
— Develop OOT insertion model, including suitability and transition criteria given organization and project characteristics.		— 3/31/94
— Investigate the use of OOT for enterprise modeling. Conduct proof of concept analysis.		— 6/30/94
— Develop training policy and plan.		— 6/30/94
— Conduct OOT methodology comparison in conjunction with domain engineering pilot.		— 6/30/94
— Conduct proof of concept study for reengineering legacy system for OOT.		— 8/31/94
Constraints		
— OOT not Completely Mature	— Unrealistic Expectations of OOT	
— Need for OOT Education Throughout the DoD	— Legacy of Procedural Paradigm	

OBJECT ORIENTED TECHNOLOGY

Software Systems Engineering (XE)



Required Resources

Funding	Staff Yrs
\$850,000	3

Support of CIM Integration Focus Areas

Focus Areas	Corresponding Support
— Information Management Process	— OOT provides input to the model for tailoring the software process to the organization, including reuse, reengineering, etc. FPI needs are factored into investigation of OOT for enterprise modeling.
— Repositories	— OOT should develop software architectures to help integrate various CIM repositories.
— Training	— Software Development /Maintenance training should incorporate broad software engineering principles and include OOT.
— Pilots	— OOT will conduct various pilots, some of which will be support to other programs, such as reengineering, domain analysis, and fpl.
— Metrics	— OOT will provide the software metrics program with information about OOT specific metrics, which need to be incorporated into any DoD plans and policies. The CIM metrics program should support development of a business case analysis for OOT.
— CASE Tools	— Any CASE tool policy or program (e.g., I-CASE) needs to support OOT.
— Modeling	— Current modeling efforts should examine usefulness of using an object modeling viewpoint.
— Economic Analysis	— Should support BCA effort for OOT
— Reengineering	— Reengineering program should support target OOT system in addition to traditional functional paradigm.

OBJECT ORIENTED TECHNOLOGY

Software Systems Engineering (XE)



Inputs from Affiliates		Products & Services to Consumers	
— High-Level Support	— Senior Level DoD Management	— Concept of Operations for OOT Software Development	— CDA, ASDC3I, CIM, FIM/TIM
— Collaboration Within CIM	— CIM Programs	— OOT Insertion Model	— CDAs, FIM/TIM, CFI
— Resolution of Technical Issues	— CFS, Industry, Academia	— Training Plan	— ASDC3I, CDAs, CFII
— Results from Test Bed Sites	— Test Beds	— Policy Recommendations	
		— Technical Reports	
		— OOT Metrics Suite	— ASDC3I, CDAs, CFS
		— Enterprise Modelling with OOT	
		— OOT Reengineering Pilot	
		— Domain Engineering Methodology Comparison Pilot	
		— I-CASE Evolution Guidance	— I-CASE PMO
		— Test Bed Sites	— CIM, CDAs
		— OOT Technology Transition Planning	— CIM, Pilots
		— Representation on Standards Bodies	— CFS
		— OOT Consulting	— CDAs, Pilots
		— OOT Software Architecture Design	— ASDC3I, Domain Managers

SOFTWARE MEASUREMENTS (METRICS) PROGRAM

Software Systems Engineering (XE)



Directorate Goals Supported

1. Coordinate the definition and implementation of a DoD infrastructure to support effective software engineering.
2. Provide a foundation and remove impediments to sound software engineering practices throughout the DoD.
3. Assist software development organizations insert and transition to appropriate software technologies.
4. Develop, coordinate, and recommend DoD policies, procedures, and guidelines for effective software engineering.

Provide measurement support for Software Reuse, Software Process Improvement, I-CASE, Technology Transfer, and Reengineering.

Activity Objectives	Targets
— Complete metrics pilot projects.	— 7/31/94
— Extend the number of sites collecting metrics based on pilot "lessons learned".	— 7/31/94
— Extend the metrics repository to accommodate more reporting sites.	— 7/31/94
— Facilitate automatic metric collection/reporting through tool set definition.	— 7/31/94
— Define metrics hierarchy.	— 3/31/94
— Establish I-CASE effectiveness.	— 3/31/94
— Establish software reuse benefits.	— 3/31/94
— Measure software reuse benefits.	— 9/30/94

Constraints

- CDA Maturity

SOFTWARE MEASUREMENTS (METRICS) PROGRAM

Software Systems Engineering (XE)



Required Resources	
Funding	Staff Yrs
\$350,000	4

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Processes	— Consultation for Metrics Integration in the Life Cycle
— Repositories	— Extend Pilot Metrics Repository to Include I-CASE and Reengineering
— Training	— Identify Software Metrics Training
— Pilot Projects	— Provide Lessons Learned and Guidelines for Metrics Implementation
— Metrics	— Provide Consultation to Other Initiatives
— Case Tools	— Establish Metrics Program for I-CASE Evaluation

SOFTWARE MEASUREMENTS (METRICS) PROGRAM

Software Systems Engineering (XE)



Inputs from Affiliates		Products & Services to Consumers
— Pilot Metrics Data Collection	— Pilot Sites	— Lessons Learned Report
— Research of Industry and Government Metrics Models	— Metrics Programs	— Lessons Learned Briefing
— Commitment	— Senior Level Management, Reporting Sites	— Metrics Implementation Guidelines
— I-CASE Pilots Data Collection	— I-CASE Pilots	— Data Collection Tool Set
		— Metrics in Organizations Report
		— Metrics Repository with Automated Reporting
		— I-CASE Pilots Metrics Plan
		— I-CASE Metrics Data Analysis Report
		— ASDC3I, CDAs, CIM
		— ASDC3I, CDAs, CIM, CFS
		— CDAs
		— ASDC3I, I-CASE PMO, I-CASE Tech Transfer

DoD SOFTWARE REUSE INITIATIVE

Software Systems Engineering (XE)



Directorate Goals Supported

1. Coordinate the definition and implementation of a DoD infrastructure to support effective software engineering.
2. Provide a foundation and remove impediments to sound software engineering practices throughout the DoD.
4. Develop, coordinate, and recommend DoD policies, procedures, and guidelines for effective software engineering.

Manage the Department of Defense Software Reuse Initiative as it moves toward reuse process institutionalization.

Activity Objectives	Targets
— Approve a Program Management Plan with DoD component concurrence.	— 10/01/93
— Develop a "Pedigree Program" for DoD software assets which will provide a capability to follow a reusable asset throughout its life-cycle.	— 9/30/94
— Recommend DoD policies, procedures, and guidelines for software reuse.	— 9/30/94

Constraints

- Volatility/Difficulty of Multi-Agency Consensus
- Murky Legal Rulings On Data/Technology Rights
- Varying Security Restrictions
- Long-Term Return on Investment of Some Activities

DoD SOFTWARE REUSE INITIATIVE

Software Systems Engineering (XE)



Required Resources	
Funding	Staff Yrs
\$450,000	4

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Process	— Channel DoD Software Reuse guidance and trends to DISA software reuse program.

Inputs from Affiliates		Products & Services to Consumers	
— DoD SRI Program Management Plan	— Reuse Executive Steering Committee (RESC), Federation Members	— DoD Software Reuse Program Management Plan	— RESC, Reuse Programs
— Defense Service Agreements	— Defense Components	— DoD Software Reuse Implementation Plan	
— CARDS Program Input	— CARDS	— Policies, Procedures, and Guidelines	— Financial and Acquisition, System Development Agencies
— STARS/ASSET Program Input	— STARS/ASSET	— Legal Handbook	— PEOs, PMs, Software Developers
— DISA SRP Program Input	— DISA SRP — RESC and Chartered Working Groups	— DoD Library Access Guidelines	— Repositories and Library Users

DISA SOFTWARE REUSE PROGRAM

Software Systems Engineering (XE)



Directorate Goals Supported

1. Coordinate the definition and implementation of a DoD infrastructure to support effective software engineering.
2. Provide a foundation and remove impediments to sound software engineering practices throughout the DoD.
3. Assist software development organizations insert and transition to appropriate software technologies.
4. Develop, coordinate, and recommend DoD policies, procedures, and guidelines for effective software engineering.
5. Integrate software engineering activities with the various CIM technologies and programs.

Activity Objectives	Targets
— Improve the Defense Software Repository System (DSRS).	— 3/30/94, 9/30/94
— Expand client base for DISA SRP products and services.	— 3/30/94, 9/30/94
— Increase the amount of domain qualified, quality tested, reusable software assets for both vertical and horizontal domains of IM and DoD.	— 12/30/93, 3/30/94, 6/30/94, 9/30/94
— Improve the quality and substance of the domain engineering support provided to IM developers.	— 12/30/93, 3/30/94, 9/30/94
— Develop and maintain the processes and tools to support a reuse-based software development life-cycle.	— 9/30/94
— Influence and support the development of software reuse solutions throughout DoD.	— Reuse Conferences, 3/30/94 & 9/30/94

Constraints

- Upper Management Guidance

Provide software reuse policies, procedures, tools, and training in an effort to institutionalize software reuse within the IM Domain. Develop, operate, maintain, and evolve a repository of IM-focused reusable software assets accessible by all DoD activities and supporting contractors. Coordinate DISA/CI Software Reuse Program (SRP) activities with other software reuse efforts throughout the Department to maximize cross-domain sharing. Promote software reuse throughout the DoD Community and supporting contractors.

DISA SOFTWARE REUSE PROGRAM

Software Systems Engineering (XE)



Required Resources	
Funding	\$7,251,000
Staff Yrs	28

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Repositories	— DSRs
— Modeling	— Domain Analysis
— IM Process	— Domain Analysis
— Metrics	— Reuse Metrics

Inputs from Affiliates		Products & Services to Consumers	
— Policy, Direction, and Guidance	— ASDC3I, DOD SRI, DISA/JIEO/CIM	— DISA SRP Strategic Plan	— ASDC3I, DOD SRI, Customer Base
— DOD IM Developer Requirements	— SRSCs, CDAs, Service Agencies, DOD IM Developers	— DISA SRP Concept of Operations	— Customer Base, Other Repositories
		— Defense Software Repository System (DSRS) Update	— SRSCs, CDAs, Service Agencies, DOD IM Developers
		— DSRs Operations Products and Services Telephonic and On-line Customer Assistance	
		— Domain-Specific, High Quality, Reusable Software Assets	— Customer Base
		— Reuse-Based Software Development Methodology	— All DOD IM Life-Cycle Participants

DISA SOFTWARE REUSE PROGRAM

Software Systems Engineering (XE)



Inputs	from Affiliates	Products & Services	to Consumers
		— Domain Engineering Products and Services	— Domain Engineers, IM Software Developers, All DoD IM Life-Cycle Participants
		— Information Management Domain Engineering Strategic Plan	— Functional Mangers, PEOs, PMs, IM Software Developers
		— Information Management Domain Model(s)	— Functional Managers, PEOs, PMs
		— Training/Education Products and Presentations Services — Initial Operating Capability of Heterogenous Repository Systems	— DoD Employees and Supporting Contractors
		— Specific Reuse Project Sponsorship	— SRSCS and SUE/ Agencies

SOFTWARE ENGINEERING ENVIRONMENTS

Software Systems Engineering (XE)



Directorate Goals Supported

1. Coordinate the definition and implementation of a DoD infrastructure to support effective software engineering.
2. Provide a foundation and remove impediments to sound software engineering practices throughout the DoD.
3. Assist software development organizations insert and transition to appropriate software technologies.

Define and implement a common DoD software engineering environment.

Activity Objectives		Targets
— Define and publish a standard software engineering life-cycle process.		
— Define and publish software developer guides for various domains (e.g., C3, business, weapon systems, intelligence, etc.).		— 9/30/94
— Develop and publish technology refreshment criteria for baseline I-CASE environment.		— 9/30/94
— Evaluate and publish the capability of the delivered I-CASE environment and develop migration requirements which identify I-CASE changes needed to support the desired Software Development Framework and Concept of Operations objectives.		— 9/30/94
— Define, publish, and test a migration strategy for transitioning to an open, fully integrated software engineering environment (I-CASE).		— 9/30/94
Constraints	— I-CASE Award	— Integration and Interoperability Issues with Porting Current CASE Tools, Software, and Data to I-CASE Environment
	— Success of I-CASE Pilots	
	— Availability of Required Technology	— DoD IM Standards and Regulations

SOFTWARE ENGINEERING ENVIRONMENTS

Software Systems Engineering (XE)



Required Resources	
Funding	Staff Yrs
\$450,000	8

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Process	— Development of a standard DoD-wide Software Engineering process to aid the software developers in the development of MIS applications.
— Repositories	— Development of an integrated I-CASE repository that will interface with the DSRS and DDRS repositories.
— Training	— Training in the use of the standard software engineering life-cycle process will be available to the software developers.

Inputs	from	Affiliates	Products & Services	to	Consumers
— I-CASE Software Engineering Environment	—	I-CASE PMO	— Standard DoD-Wide Software Engineering Life-Cycle Process	—	DoD Software Developers
— New Hardware and Software Requirements from Software Developers	—	Central Design Activities	— DoD Standard Language Guidance	—	
— Information on Current Software Development Practices, Methodologies, and Development Languages	—	Industry and Government	— Software Engineering Environment Migration Strategy	—	Central Design Activities, I-CASE Sites
			— Implementation Plans		

SOFTWARE PROCESS IMPROVEMENT

Software Systems Engineering (XE)



Directorate Goals Supported

2. Provide a foundation and remove impediments to sound software engineering practices throughout the DoD.
3. Assist software development organizations insert and transition to appropriate software technologies.
4. Develop, coordinate, and recommend DoD policies, procedures, and guidelines for effective software engineering.
5. Integrate software engineering activities with the various CIM technologies and programs.

Assist and energize information technology organizations to continuously improve the performance and quality of their software processes, products, and services.

Activity Objectives	Targets
— Expand number of Software Process Improvement Programs launched via Software Process Improvements.	— Twenty (20) by 3/31/94, 40 by 9/30/94.
— Retain/Develop SEI authorized SPA leaders.	— Three (3) by 10/30/93, 4 by 9/30/94.
— Develop and conduct customer conferences customers to explain process improvement and share lessons learned.	— One (1) by midyear FY94, another by year-end FY94.
— Maintain SPA database.	— Ongoing
— Chair quarterly software Process Improvement Advisory Group Meetings.	— Quarterly
— Perform readiness assessments.	— Six (6) by 3/31/94.
— Begin sponsorship training for SPI.	— 10/30/93
— Prepare and publish guidelines for post-SPA and process metrics.	— Draft by 5/31/94, final by 9/30/94.
Constraints	— Protest of Contract Award (Delays First Activity Until 11/93)

SOFTWARE PROCESS IMPROVEMENT

Software Systems Engineering (XE)



Required Resources	
Funding	Staff Yrs
\$950,000*	11

*CDAs Will Be Required to Fund
40-50 Percent of Each SPA

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Process	— Provide Software Process Assessments
— Metrics	— Collect Software Metrics Data

Inputs from Affiliates		Products & Services to Consumers	
— Software Engineering Institutes Capability Maturity Model/SEI Materials (e.g., Vendor Kits, CMM Questionnaire)	— SEI	— Software Process Assessment Handbook	— CDAs
— DISA Infrastructure to Support Contracts with SEI Licensed Vendors, CIM SETA, Training, Acquisition of Personnel	— DISA Support Offices	— Assessment Team Training	
— Information Internal to Client Organization's Current Software Practices	— CDAs	— Final Reports	
		— Action Plans	
		— Implementation Plans	
		— Implementation Assistance	
		— Post-SPA Guidelines	
		— Process Metrics	

SOFTWARE REENGINEERING PROGRAM

Software Systems Engineering (XE)



Directorate Goals Supported

1. Coordinate the definition and implementation of a DoD Infrastructure to support effective software engineering.
3. Assist software development organizations insert and transition to appropriate software technologies.
4. Develop, coordinate, and recommend DoD policies, procedures, and guidelines for effective software engineering.
5. Integrate software engineering activities with the various CIM technologies and programs.

Research, develop, and implement software reengineering strategies and technology to migrate legacy systems, reduce maintenance costs, and leverage existing software assets.

Activity Objectives	Targets
— Conduct software reengineering process model workshops.	— Conduct two workshops by 9/30/94.
— Begin utilization of the CIM Software Reengineering Cost/Benefit Model.	— Apply model to actual project(s) by 9/30/94.
— Develop, publish, and apply an information systems criteria for applying software reengineering.	— Begin applying criteria to actual project(s) by 9/30/94.
— Develop/Enhance software reengineering metrics.	— Ongoing
— Develop/Enhance software reengineering risk taxonomy.	— Ongoing
— Reengineer a software system.	— 9/30/94

Constraints

SOFTWARE REENGINEERING PROGRAM

Software Systems Engineering (XE)



Required Resources	
Funding	Staff Yrs
\$550,000	5

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Reengineering	<ul style="list-style-type: none">— Provide guidelines for performing software reengineering.— Apply software reengineering restructuring to specific project.
— Economic Analysis	<ul style="list-style-type: none">— Develop reengineering cost/benefit analysis methodology in coordination with CIM FEA.
— Metrics	<ul style="list-style-type: none">— Develop software reengineering metrics to support business measures
— CASE Tools	<ul style="list-style-type: none">— Identify CASE tools for supporting software reengineering and tech transition, with both Upper and Lower CASE.
— Pilot Projects	<ul style="list-style-type: none">— Actively participate in reengineering projects and integrate other CIM organizations such as Data Administration and FPI to support these projects.

SOFTWARE REENGINEERING PROGRAM

Software Systems Engineering (XE)



Inputs from Affiliates		Products & Services to Consumers
<ul style="list-style-type: none"> — Legacy Systems — Software Reengineering Technology 	<ul style="list-style-type: none"> — CDAs, CFII — Industry, Government Agencies 	<ul style="list-style-type: none"> — Software Reengineering Process Model Workshops — CIM Software Reengineering Cost/Benefit Model — Validated Information System Criteria for Applying Software Reengineering — Reengineered System — Technical Reports/Lessons Learned

Ada REVITALIZATION PROGRAM

Software Systems Engineering (XE)



Directorate Goals Supported

1. Coordinate the definition and implementation of a DoD infrastructure to support effective software engineering.
2. Provide a foundation and remove impediments to sound software engineering practices throughout the DoD.
4. Develop, coordinate, and recommend DoD policies, procedures, and guidelines for effective software engineering.

Provide redirection, focus, and leadership to the revitalization of the Ada Programming Language within the Department of Defense and associated industry.

Activity Objectives	Targets
— Plan and host an "Ada Summit" between the software leaders in government and industry.	— 11/31/93
— Refocus the Ada initiative away from standardization and toward commercialization.	— 6/30/94
— Provide leadership to the Ada Education & Training efforts throughout the government and industry.	— 4/30/94
— Implement an effective Ada technology transfer program.	— 6/30/93
— Implement an effective Ada outreach program, to include expanding the Ada Information Clearinghouse and marketing program.	— 4/1/94
— Form strategic partnerships with Ada sponsors and generate joint Ada revitalization projects with industry.	— 12/30/93
Constraints	
— Congressional Interests — Current DoD Policy — Public Law — Cultural Resistance to Ada	

Ada REVITALIZATION PROGRAM

Software Systems Engineering (XE)



Required Resources	
Funding	Staff Yrs
TBD*	TBD*

*To be Determined Pending Transfer of Ada Joint Program Office Billets and Funding to DISA

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Metrics	— Demonstrated Ada Return on Investment

Inputs	from	Affiliates	Products & Services	to	Consumers
— Ada 9x Requirement	—	AJPO	— Ada Strategic Plan	—	ASD(C3I)
— Clear Executive Direction	—	Ada Summit, DoD Executives	— Commercialization		
— Resources	—	ASD(C3I)	— Institutionalization		
			— Transition		



INFORMATION ENGINEERING (XF)

MISSION STATEMENT

Information Engineering (XF)



Supports the policies and goals of the Office of the Assistant Secretary of Defense for Command, Control, Communications and Intelligence in the implementation of efficient Information Engineering (IE) and business practices. Serves as the Department of Defense change agent to improve IE and Functional Process Improvement (FPI) in the Department. Provides effective IE and FPI procedures, methods, techniques, tools and services for all elements of the Department of Defense and other government agencies.

DIRECTORATE GOALS

Information Engineering (XF)



1. Develop and promote an integrated approach to IE and FPI:
 - 1a. Assist the DoD functional community and other government agencies in reducing their annual operating costs, increasing their effectiveness, and responding in a flexible and timely manner to evolving requirements.
 - 1b. Improve the quality of IE and FPI capabilities and practices in DoD and other government agencies, relative to industry standards and business practices.
 - 1c. Develop and manage a set of off-the-shelf tools and services to assist the functional community in performing FPI and IE.
2. Become our customers' "Supplier of Choice" for improved IE and FPI practices, tools, and training.
3. Build and IE/FPI work force that is recognized as a leader in the government.

GOAL SUPPORTING ACTIVITIES

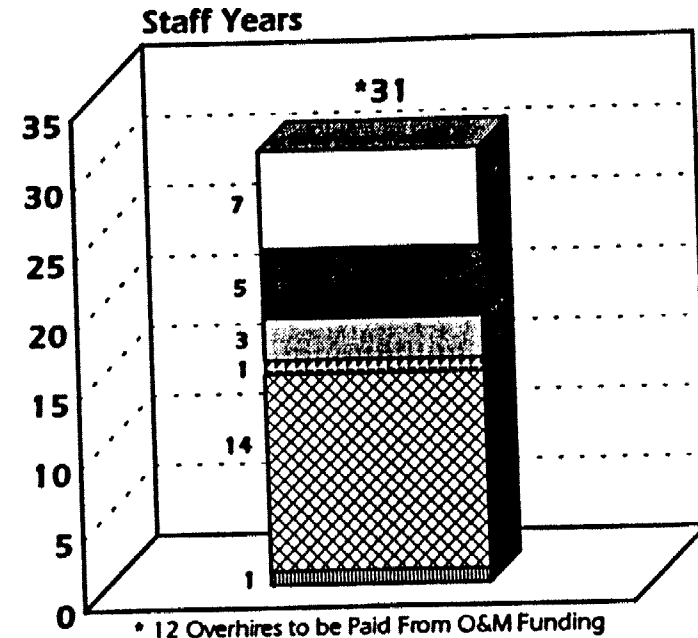
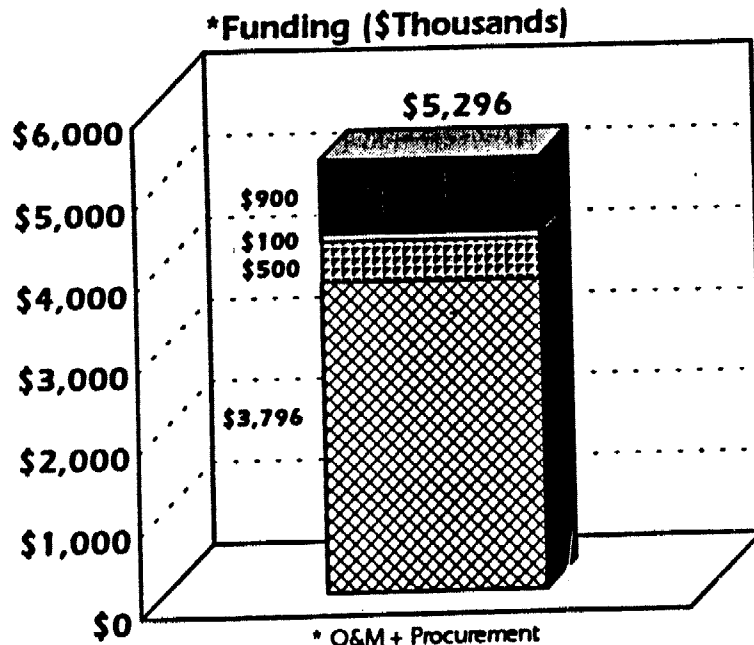
Information Engineering (XF)



- **Coordinate Functional Area Model Development**
- **Conduct Improvement Analysis**
- **Provide FEA Expert Assistance**
- **Manage the Repository of Functional Area Models**
- **Provide FPI and Upper CASE IE Customer Support**
- **Manage the FPI Process**
- **Manage the Upper CASE Portion of the IE Process**

RESOURCE REQUIREMENTS

Information Engineering (XF)



Information Engineering Activities

- Coordinate Functional Area Model Development
- Conduct Improvement Analysis
- Provide FEA Expert Assistance
- Manage the Repository of Functional Area Models
- Provide FPI and Upper CASE IE Customer Support
- Manage the FPI Process
- Manage the Upper CASE Portion of the IE Process

FUNCTIONAL AREA MODEL DEVELOPMENT

Information Engineering (XF)



Directorate Goals Supported

- 1a. Assist the DoD functional community and other government agencies in reducing their annual operating costs, increasing their effectiveness, and responding in a flexible and timely manner to evolving requirements.
2. Become our customers' "Supplier of Choice" for improved IE and FPI practices, tools, and training.

Directly support FPI Working Groups with items such as work group start-up and assisting Functionals in applying FPI techniques.

Activity Objectives		Targets	
— Increase the number of DoD functional groups receiving IESPMO consultation.		— Provide consultation to 25 people/groups per month.	
— Increase the number of workshop contract packages Initiated.		— Initiate 8 workshop contract packages per month.	
Constraints		— Policy and Guidance Remain Same	
		— Mission Remains Same	
		— Funding Remains Same (Tied Proportionally to Targets)	
		— Contracts and Delivery Orders Remain in Place	

FUNCTIONAL AREA MODEL DEVELOPMENT

Information Engineering (XF)



Required Resources	
Funding	\$0
Staff Yrs	7

Support of CIM Integration Focus Areas	
Focus Areas	— Reengineering
Corresponding Support	— Business Support

Inputs from Affiliates		Products & Services to Consumers	
<ul style="list-style-type: none"> — AS-IS Business Activities — Prior Strategic Plans 	<ul style="list-style-type: none"> — DOD Functionals 	<ul style="list-style-type: none"> — Functional Models 	<ul style="list-style-type: none"> — DOD Functionals, Data Administration
		<ul style="list-style-type: none"> — Recommended Changes, Redirection, and Improvements 	<ul style="list-style-type: none"> — DOD Functionals ASD (PSA)
		<ul style="list-style-type: none"> — Functional Framework and Plan 	<ul style="list-style-type: none"> — DOD Functionals

IMPROVEMENT ANALYSIS

Information Engineering (XF)



Directorate Goals Supported

- 1a. Assist the DoD functional community and other government agencies in reducing their annual operating costs, increasing their effectiveness, and responding in a flexible and timely manner to evolving requirements.
- 1b. Improve the quality of IE and FPI capabilities and practices in DoD and other government agencies, relative to industry standards and business practices.
- 1c. Develop and manage a set of off-the-shelf tools and services to assist the functional community in performing FPI and IE.

Assist functionals in analyzing costs, comparing benchmarks and best business practices, and simulating alternatives. Assist in the development of improved performance measurements, targets, and alternative improved business practices.

Activity Objectives

- Make information and consulting on benchmarking and best business practices available to the DoD functional groups.

Targets

- Provide consultation to 4 groups per month.
- Provide benchmark and best business practices access by 12/30/93.

Constraints

- Policy and Guidance Remain Same
- Mission Remains Same
- Funding Remains Same (Tied Proportionally to Targets)
- Contracts and Delivery Orders Remain in Place

IMPROVEMENT ANALYSIS

Information Engineering (XF)



Required Resources	
Funding	Staff Yrs
\$900,000	5

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Metrics	— Business Measures, Benchmarking
— Reengineering	— Business Support

Inputs from Affiliates		Products & Services to Consumers
<ul style="list-style-type: none">Validated Functional BaselineFinancial Information	<ul style="list-style-type: none">DoD Functionals	<ul style="list-style-type: none">“TO-BE” ALTERNATIVES:<ul style="list-style-type: none">Simulation ModelsInformation on Best Business PracticesInformation on Benchmarks <ul style="list-style-type: none">DoD Functionals
<ul style="list-style-type: none">Best Business Practices	<ul style="list-style-type: none">Industry or Other Government Agency	
<ul style="list-style-type: none">Industry Information	<ul style="list-style-type: none">Industry	
<ul style="list-style-type: none">Enterprise Model	<ul style="list-style-type: none">OSD	

FEA EXPERT ASSISTANCE

Information Engineering (XF)



Directorate Goals Supported

- 1a. Assist the DoD functional community and other government agencies in reducing their annual operating costs, increasing their effectiveness, and responding in a flexible and timely manner to evolving requirements.
- 1b. Improve the quality of IE and FPI capabilities and practices in DoD and other government agencies, relative to industry standards and business practices.
2. Become our customers' "Supplier of Choice" for improved IE and FPI practices, tools, and training.

Assist functionals in analyzing and documenting alternative improved business processes and estimating alternative life-cycle costs, benefits, and risks. Assist Program Analysis and Evaluation (PA&E) to integrate FEA and EA.

Activity Objectives

- Complete integration of FEA and EA cost structures.

- Provide FEA/EA integration assistance for 2 prototype functional areas.

- Increase the number of FEAs reviewed.

Targets

- Develop common cost structure FEA, LCC/B and IT 43 exhibits by 12/30/93.

- Complete findings report for Medical Logistics Functional Area by 7/31/94.

- Complete findings report for C3I system (TBD) by 9/30/94.

Constraints

- | | | |
|-----------------------------------|---|---|
| — Policy and Guidance Remain Same | — Funding Remains Same (Tied Proportionally to Targets) | — Contracts and Delivery Orders Remain in Place |
| — Mission Remains Same | | |

FEA EXPERT ASSISTANCE

Information Engineering (XF)



Required Resources	
Funding	Staff Yrs
\$100,000	3

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Economic Analysis	— FEA, Reengineering, Cost/Benefit Model

Inputs	from Affiliates	Products & Services	to Consumers
<ul style="list-style-type: none"> — TO-BE Alternatives — Validated Functional Baseline 	<ul style="list-style-type: none"> — DoD Functionals 	<ul style="list-style-type: none"> — Recommended Alternatives and Supporting FEA — Resource and Capital Budget Requirement — Action Plan 	<ul style="list-style-type: none"> — PA&E, OSD PSA, DoD Functionals

FUNCTIONAL AREA MODEL REPOSITORY

Information Engineering (XF)



Directorate Goals Supported

- 1c. Develop and manage a set of off-the-shelf tools and services to assist the functional community in performing FPI and IE.
2. Become our customers' "Supplier of Choice" for improved IE and FPI practices, tools, and training.

Provides management of interim DoD IDEF repository and support to manage functional area models.

Activity Objectives	Targets
— Increase the number of repository users.	— Increase by 5 users per month.
— Increase the number of persons trained in repository use.	— Train 16 persons per month.
Constraints	
— Enterprise Model	— Funding Remains Same (Tied Proportionally to Targets)
— Policy and Guidance Remain Same	— Contracts and Delivery Orders Remain in Place
— Mission Remains Same	

FUNCTIONAL AREA MODEL REPOSITORY

Information Engineering (XF)



Required Resources	
Funding	Staff Yrs
\$500,000	1

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Repositories	— Interim IDEF Repository

Inputs	from Affiliates	Products & Services	to Consumers
— IDEF Models	— DoD Functionals	— Stored Processes and Data Models — Catalog of Models — Reusable Models — Reports	— DoD Functionals

FPI & UPPER CASE IE CUSTOMER SUPPORT

Information Engineering (XF)



Directorate Goals Supported

- 1a. Assist the DoD functional community and other government agencies in reducing their annual operating costs, increasing their effectiveness, and responding in a flexible and timely manner to evolving requirements.
- 1c. Develop and manage a set of off-the-shelf tools and services to assist the functional community in performing FPI and IE.
2. Become our customers' "Supplier of Choice" for improved IE and FPI practices, tools, and training.

Develop and manage FPI and Upper CASE IE tool sets and guidebooks. Manage FPI and Upper CASE IE training initiatives (e.g., CADRE 100), loaner tool program, and hotline and DTIC support. Provide program support to DASD(IM) and the FIMs and manage FPI acquisition contracts. Transfer FPI technology to other government agencies and foreign governments.

Activity Objectives	Targets
— Increase the number of persons trained in FPI and Upper CASE IE.	— Train 62 people in FPI per month.
— Increase the number of loaner tools loaned to functions.	— Loan 100 tools in FY94.
— Increase the number of people trained in <i>Cadre 100</i> .	— Train 100 and certify 50 people in <i>CADRE 100</i> by end of FY94.
— Increase the number of FPI and Upper CASE IE briefings and tool demonstrations given.	— Do 3 demonstrations per month.
— Increase the number of new customers.	— Contact 8 new customers per month.
— Increase the number of users of <i>Center of Expertise</i> .	— Obtain 4 customers per month.
Constraints <ul style="list-style-type: none"> — Policy and Guidance Remain Same — Mission Remains Same <ul style="list-style-type: none"> — Funding Remains Same (Tied Proportionally to Targets) — Technology Limitations 	

FPI & UPPER CASE IE CUSTOMER SUPPORT

Information Engineering (XF)



Required Resources	
Funding	Staff Yrs
\$3,796,000	14

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Reengineering	— Business Process
— Training	— IDEF and FPI

Inputs	from	Affiliates	Products & Services	to	Consumers
<ul style="list-style-type: none"> — FPI and Upper CASE IE Service Requests and Inquiries — Customer Feedback 			— Contracts and Delivery Orders		— Contractors
			<ul style="list-style-type: none"> — FPI and Upper CASE IE Information and Documents — FPI and Upper CASE IE Training Courses and Materials 		— DoD Functionals

FPI PROCESS MANAGEMENT

Information Engineering (XF)



Directorate Goals Supported

- 1b. Improve the quality of IE and FPI capabilities and practices in DoD and other government agencies, relative to industry standards and business practices.
- 1c. Develop and manage a set of off-the-shelf tools and services to assist the functional community in performing FPI and IE.
2. Become our customers' "Supplier of Choice" for improved IE and FPI practices, tools, and training.
3. Build and IE/FPI work force that is recognized as a leader in the government.

Plan, develop, and manage FPI activities Monitor quality, consistency, and cost of the FPI program.

Activity Objectives

- Collect metrics on quality, cost, and time of FPI activities.

Targets

- Track 100% of FPI workshops.
 - Modify contracts to incorporate FPI performance measurement instrument by 11/31/93.
 - Establish performance measurement tracking system by 12/30/93.
 - Identify in-house FPI initiatives. (Ongoing)

Constraints

- | | |
|-----------------------------------|---|
| — Technology Limitations | — Funding Remains Same (Tied Proportionally to Targets) |
| — Policy and Guidance Remain Same | — CIM and IESPMO Strategic Plans |
| — Mission Remains Same | |

FPI PROCESS MANAGEMENT

Information Engineering (XF)



Required Resources	
Funding (Staff Yrs)	Included in "Customer Support & Repository"
	Not Separately Estimated

Support of CIM Integration Focus Areas	
Focus Areas	IM Process
Corresponding Support	— FPI and Link to Lower Case

Inputs from Affiliates		Products & Services to Consumers	
— Feedback from IESPMO's FPI Support Services Customers	— Current FPI/BPI/BPR Practices Within Government and Industry	— New and Improved FPI Processes, Procedures, and Initiatives	— DoD and Other Agencies
	— DDI (From Government and Industry)		

IE UPPER CASE PROCESS MANAGEMENT

Information Engineering (XF)



Directorate Goals Supported

- 1a. Assist the DoD functional community and other government agencies in reducing their annual operating costs, increasing their effectiveness, and responding in a flexible and timely manner to evolving requirements.
- 1b. Improve the quality of IE and FPI capabilities and practices in DoD and other government agencies, relative to industry standards and business practices.
- 1c. Develop and manage a set of off-the-shelf tools and services to assist the functional community in performing FPI and IE.

Monitor the quality, consistency, and cost of the Upper CASE IE Plan. Manage Upper CASE IE activities and support technology transfer for the Upper CASE IE portion of the DoD I-CASE program. Investigate the integration of decision support, knowledge engineering, and operations research with Upper CASE IE.

Activity Objectives

— Develop IE Expertise

— Support Upper CASE portion of I-CASE pilot projects.

Targets

— Have 3 people trained by 8/31/94.

— Work with all of the I-CASE pilots in XE that include Upper CASE IE during FY94.

Constraints

— Technology Limitations

— Policy and Guidance Remain Same

— Mission Remains Same

— Funding Remains Same (Tied Proportionally to Targets)

IE UPPER CASE PROCESS MANAGEMENT

Information Engineering (XF)



Required Resources	
Funding	Staff Yrs
Not Separately Provided	1

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— CASE Tools	— Upper CASE
— Reengineering	— Business Process
— Pilot Projects	— N/A

Inputs from Affiliates		Products & Services to Consumers	
— DOD I-CASE Methodologies, Standards, and Tools	— XE, OSD	— Coordinated Upper CASE IE Processes, Procedures, and Initiatives	— DOD Functionals and CDAs
— Pilot Projects	— XE, DOD CDAs	— Improved Utilization of I-CASE Methodologies and Tools	



INFRASTRUCTURE (XI)

MISSION STATEMENT

Infrastructure (XI)

Provide processes and tools that will enable the Defense Information Infrastructure (DII) to become a "World Class" computer and communications utility.



DIRECTORATE GOALS

Infrastructure (XI)



1. Initiate an Information Technology Asset Management Program to establish common management disciplines and standard configuration management techniques throughout the DII.
2. Determine and promulgate "best practice" in the management and operation of the DII.
3. Foster a supporting process that will enable DII managers to procure COTS IT products promptly and at low cost, manage them effectively over their life, and recover maximum residual value at disposal.
4. Expand ARMS to better support the management of COTS IT products.

GOAL SUPPORTING ACTIVITIES

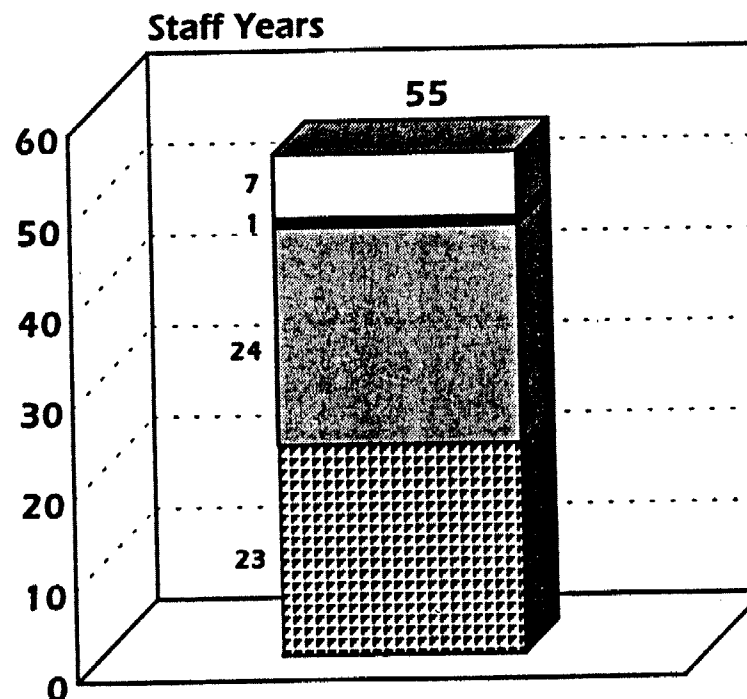
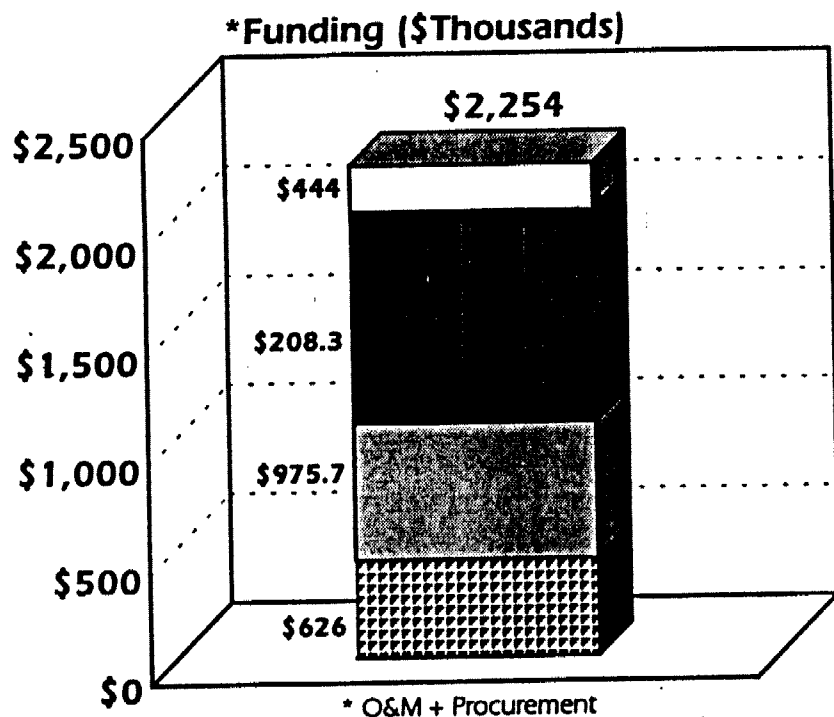
Infrastructure (XI)







- **IT Asset Management Program**
- **Infrastructure Operations Improvement Program
(First Quarter FY1994 Only)**
- **DoD COTS Product Management Program**
- **Automation Resources Management System (ARMS)
Maintenance and Enhancement**

RESOURCE REQUIREMENTS

Infrastructure (XI)



Infrastructure Activities

-  IT Asset Management Program
-  Infrastructure Operations Improvement Program
-  DoD COTS Management Program
-  Automation Resources Management System (ARMS) Maintenance and Enhancement

IT ASSET MANAGEMENT

Infrastructure (XI)



Directorate Goals Supported

1. *Initiate an Information Technology Asset Management Program to establish common management disciplines and standard configuration management techniques throughout the DII.*

Fulfill the requirements of the OSD Mission Element Needs Statement for IT Asset Management processes and supporting automation.

Activity Objectives	Targets
— Refinement of OSD MENS.	— 12/31/93
— Commence formulation of DII-wide Configuration Management and Control processes.	— 12/31/93
— Commence formulation of supporting AIS evolution strategy.	— 12/31/93
— Complete preliminary Configuration Management and Control processes.	— 6/30/94
— Complete preliminary AIS evolution strategy.	— 6/30/94
— Resolve requirements and schedule.	— 9/30/94

Constraints

- Budget
- DISA-Wide Cooperation

IT ASSET MANAGEMENT

Infrastructure (XI)



Required Resources	
Funding	Staff
\$444,000	7

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— IM Processes	— IT Asset Life-Care
— Repositories	— ARMS

Inputs from Affiliates		Products & Services to Consumers	
<ul style="list-style-type: none"> — Current Processes — Current Automation Capabilities 	<ul style="list-style-type: none"> — DISA, MilDeps 	<ul style="list-style-type: none"> — Revised MENS — Follow-On Resource Requirements 	<ul style="list-style-type: none"> — OASD(C3I)
		<ul style="list-style-type: none"> — Preliminary Configuration Management and Control Processes — Preliminary AIS Evolution Strategy 	<ul style="list-style-type: none"> — OASD(C3I), DISA, and MilDeps

INFRASTRUCTURE OPERATIONS IMPROVEMENT

Infrastructure (XI)



Directorate Goals Supported

2. Determine and promulgate "best practice" in the management and operation of the DII.

Activity Objectives	Targets
— Develop DPI self-assessment guidebook on schedule.	— 11/30/93
— Develop long-haul best practices report on schedule.	— 12/31/93
— Develop a strategic plan for ASD(C3I) on how to implement IS capacity management across DoD.	— 12/31/93
— Develop a Capacity Management Education and Training Curriculum for the DISO Megacenters.	— 12/31/93

This activity will be phased out at the end of the First Quarter FY1994. Contractor tasks started in FY1993 scheduled to end in 1Q FY1994 will be completed.

Constraints

- MilDep Benchmarking Cooperation
- Corporate Client/Server Cooperation
- MilDep Capacity Management IDEF Cooperation
- OSD and MilDep Accounting Cooperation

Establish best practices in long-haul networks, end-user distributed computing, client/server implementation, and application development. Serve as DoD's Capacity Management Executive Agent by establishing As-Is practices and costs, determining Response Time Delay budgets, and initiating base-level accounting. Provide tools and techniques to support Best Practice.

INFRASTRUCTURE OPERATIONS IMPROVEMENT

Infrastructure (XI)



Required Resources	
Funding	Staff
\$208,321	1

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Metrics	— Best Practices Reports for DPI, Communications, and Base Level — Self-Assessment Guide — Benchmarking
— Training	— Capacity Management Training

Inputs from Affiliates		Products & Services	to Consumers
— Data on MilDep Base Networks for Benchmarks	— MilDep	— Long-Haul Communication Best Practices Report	— DISA Office of the Director, Mobilization Assistant
— Data from Industry on Client Server	— Industry	— Base-Level Network Best Practices and Benchmark Report	— OASD(C3I) Director of Information Technology Resources
— Data from MilDep on Capacity Management Process	— MilDep	— Client/Server Economics Report	
— Data from MilDep on Inventory and Current Practice		— End-to-End Response Time Budget — Base-Level Accounting Policy and Guidelines — DPI Self-Assessment Guide — Pilot Curriculum for Selected Capacity Management Functions	

DoD COTS PRODUCT MANAGEMENT

Infrastructure (XI)



Directorate Goals Supported

3. Foster a supporting process that will enable DII managers to procure COTS IT products promptly and at low cost, manage them effectively over their life, and recover maximum residual value at disposal.

Create intra-DISA and DISA/MilDep processes for streamlined COTS procurement and COTS product life care.

Activity Objectives	Targets
— Continue reuse.	— \$50M in FY94.
— Develop first executive and PC software enterprise licenses.	— 6/30/94
— Complete 1995 sales and marketing penetration forecasts.	— 9/30/94
— Develop cooperative DISA-wide COTS product management process.	— 12/31/93
— Develop DoD-wide software distribution process.	— 6/30/94
— Develop rudimentary central ordering system.	— 6/30/94
— Develop ITABBS profiles for DPI and base.	— 25% of DoD hardware in FY94

Constraints

- Intra-DISA and MilDep Cooperation
- OSD and GSA Acquisition Reviews

DoD IT COTS PRODUCT MANAGEMENT

Infrastructure (XI)



Required Resources	
Funding	Staff
\$975,679	24

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Processes	— Enterprise Licenses — COTS Product Management Process — Software Distribution Process — Central Ordering System

Inputs from Affiliates		Products & Services to Consumers
— Architectural Goals from JIEO/CFA	— JIEO/CFA	— IT Products
— Requirements from MilDep	— MilDep	— DoD Excess Automation Resources Bulletin
— IDIQ CLINS from MilDep	— MilDep	— Redistribution Support Services
— Baseline Executive Software from MilDep and DITSO	— MilDep and DITSO	— Excess Reporting System
— Excess IT and Reuse Needs		— MilDep and DITSO
		— GSA, OSD, DoD, MilDeps, Defense Agencies, and Contractors

ARMS MAINTENANCE AND ENHANCEMENT

Infrastructure (XI)



Directorate Goals Supported

4. Expand ARMS to better support the management of COTS IT products.

Maintain and expand Automation Resources Management System (ARMS) to support DoD's IT asset information requirements.

Activity Objectives		Targets
— Capture ITABBS acquisition data.		— 3/31/94
— Increase the quantity and quality of inventory data.		— 9/30/94
— Increase ARMS capabilities.		— 6/30/94
— Improve the ARMS training program.		— 3/31/94
— Increase customer satisfaction.		— 6/30/94
— Automate data transfer from other IT databases.		— 9/30/94
Constraints		
— Budget		— DoD Directive 7950.1-M (Draft 8250.1)
— FIRMR		
— FAR		— DoD Data Reporting Requirements Compliance
— DFAR Supplement		

ARMS MAINTENANCE AND ENHANCEMENT

Infrastructure (XI)



Required Resources	
Funding	Staff
\$626,000	23

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Repositories	— Expansion of Inventory Data — Automated Data Transfer from Other IT — Standardized Procedures for Reporting
— Training	— ARMS Training

Inputs	from Affiliates	Products & Services	to Consumers
— Federal and DASD(IM) Directives and Guidance	— DASD(IM)	— ARMS User Guide	— MilDeps and Defense Agencies
— Data on ADP Facilities, Inventory, Contracts Redistribution, and Sharing Capacity from DoD MilDep, Agencies, and Contractors	— DoD, MilDep, Agencies, and Contractors	— User Friendly On-Line Update and Query Capability — Standardized Procedures for Reporting Data — IT Asset Data Model	
— Functional Requirements from GSA, OSD, DoD ARMS Users, and Asset/Functional Managers — Interfaces with Other IT Asset Repositories and Databases	— GSA, OSD, DoD, ARMS Users, Asset/Functional Managers	— Analyses of DoD IT Asset Information	— DASD(IM) and DoD IT Asset Managers
		— System Security Administration	— OSE, DISA
		— Integration of IT Asset Data	— DASD(IM) and DoD IT Asset Managers/Functionals
		— Education and Training	— DASD(IM), MilDeps and Defense Agencies



PLANNING AND INTEGRATION (XT)

MISSION STATEMENT

Planning and Integration (XT)



Provide the support and strategic services required to execute the overall CIM Mission. From the programmatic, resource and acquisition perspectives, ensure that all center activities are compatible, do not overlap, are complete, and adhere to DoD policies, goals, and objectives.

DIRECTORATE GOALS

Planning and Integration (XT)



1. Define and implement a unified strategy that promotes cross-directorate projects and interaction as a way of doing business.
2. Define and implement a planning process that integrates the programmatic, resource, and acquisition perspectives.
3. Define accurate measures for monitoring program execution.
4. Implement an efficient process for collecting and reporting program execution measures.
5. Define and implement a Center-wide process that reduces the resources and time required to prepare and coordinate acquisition packages.
6. Define and implement a Center-wide process that reduces the resources and time required to obtain administrative services.

GOAL SUPPORTING ACTIVITIES

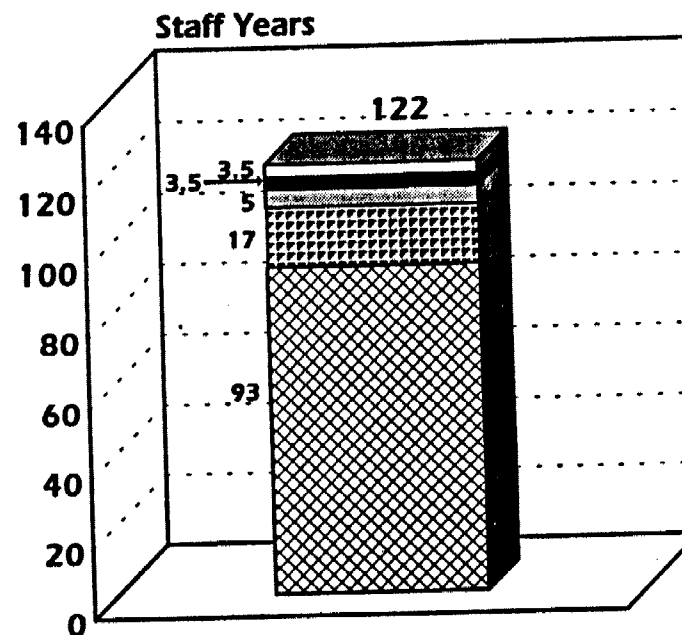
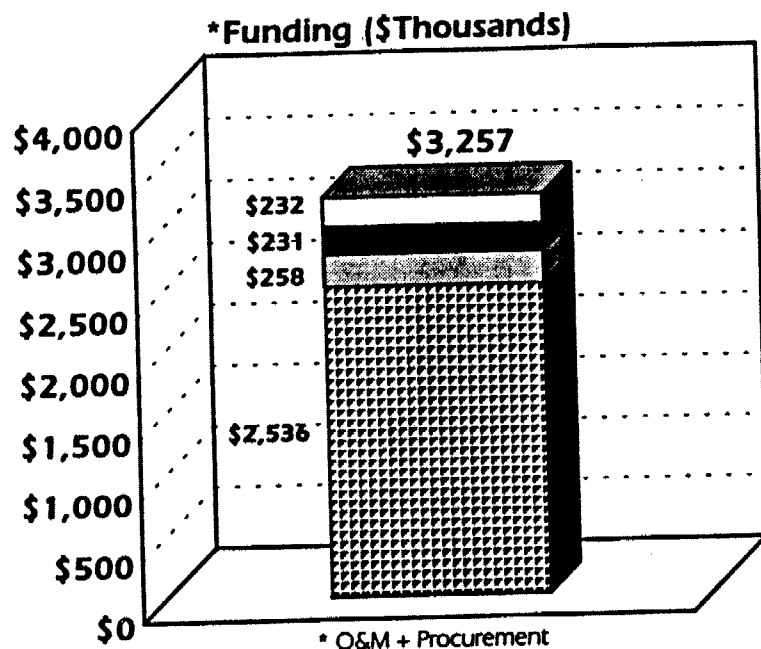
Planning and Integration (XT)



- **Develop Plans**
- **Monitor the Progress of CIM Programs**
- **Integrate Cross-Directorate Activities**
- **Provide Administrative Support**
- **Provide On-Site Support**

RESOURCE REQUIREMENTS

Planning and Integration (XT)



Planning and Integration Activities

- Develop Plans
- Monitor the Progress of CIM Plans
- ▨ Integrate Cross-Directorate Activities
- ▩ Provide Administrative Support
- ▧ Provide On-Site Support

DEVELOP PLANS

Planning and Integration (XT)



Directorate Goals Supported

2. Define and implement a planning process that integrates the programmatic, resource, and acquisition perspectives.
3. Define accurate measures for monitoring program execution.
4. Implement an efficient process for collecting and reporting program execution measures.

Produce both the longer term strategic plans and near term operating plans that set the direction for CIM. Provide analysis of customer requirements through a coordinated business development process (i.e., marketing and customer relations). Produce all required input to the DISA and DoD planning processes.

Activity Objectives	Targets
— Obtain full funding for CIM programs.	— All 1994 & 1995 CIM programs fully funded.
— Perfect plans to the degree that minimal modifications are required within appropriate time frames.	— Less than 10 percent change during execution period.
— Achieve level of perfection within plans such that minimal negotiations are required with approval authorities.	— Plans are approved before the start of FY95.
— Define and implement an effective and efficient CIM planning process.	— Have the CIM planning process in place by the start of the FY95 planning cycle.
— Develop: <ul style="list-style-type: none">- Strategic Plan- Operating Plan- Advanced Acquisition Plan- Requirements Analysis	<ul style="list-style-type: none">- 6/15/94- 8/15/94- 5/15/94- 4/15/94

Constraints

- Budget Cuts
- DoD IM Strategic Direction

DEVELOP PLANS

Planning and Integration (XT)



Required Resources	
Funding	\$232,000
Staff	3.5

Support of CIM Integration Focus Areas	
Focus Areas	— Supports All Integration Focus Areas
Corresponding Support	— Plans and Provides Resources for the Integration Activities

Inputs from Affiliates		Products & Services to Consumers	
— Sections of Plans and Customer Requirements	— Center Directories	— Strategic Plan	— Director JIEO, Director DISA, DASD(IM)
— Resource Guidance and Direction	— Controller	— Operating Plan	
— DISA-Level Planning Direction and Guidance	— DISA/PAD	— Advanced Acquisition Plan	— DISA Advanced Acquisition Panel, Director DISA
— DoD-Level Programmatic Direction and Guidance	— DASD(IM)	— POM and FYCP Input	— Director JIEO, DISA/PAD
		— Allocated Resources	— Center Directories
		— Customer Requirements Analysis	— Center Directories, DASD(IM)

MONITOR THE PROGRESS OF CIM PROGRAMS

Planning and Integration (XT)



Directorate Goals Supported

- 3. Define accurate measures for monitoring program execution.
- 4. Implement an efficient process for collecting and reporting program execution measures.

Activity Objectives	Targets
— Define and implement a set of program measures.	— 10/30/94
— Ensure that CIM actions align with OSD and DISA approval and reporting procedures.	— Provide monthly status reports to Director, CIM beginning 11/15/93. — Provide quarterly status reports to DASD(IM) beginning 1/15/94.
— Develop reports which are timely, pertinent, and accurate.	— Comply with all OSD and DISA reporting requirements with 100 percent on-time delivery. — Satisfy all requests for resource and programmatic status with 100 percent accuracy.

Constraints

- Availability of Accurate Programmatic and Resource Information
- Program Management Support Tools

Monitor and track the progress of CIM programs and resources, which are allocated and managed on a Center-wide priority basis through the planning process. Ensure that DISA and OSD reporting requirements are met. Provide programmatic and funding status to OSD and DISA elements, as required.

MONITOR THE PROGRESS OF CIM PROGRAMS

Planning and Integration (XT)



Required Resources	
Funding	\$231,000
Staff	3.5

Support of CIM Integration Focus Areas	
Focus Areas	— Supports All Integration Focus Areas
Corresponding Support	— Monitors the Execution and Progress of Integration Activities

Inputs from Affiliates		Products & Services to Consumers	
<ul style="list-style-type: none"> — Program Resource Information, Status Reports, and Execution Reviews — Program Reporting Requirements — Accounting and Budget Review Guidance and Direction 	<ul style="list-style-type: none"> — Center Directorates — Director of JEO, Director of DISA, DASD(IM) — Comptroller 	<ul style="list-style-type: none"> — Program Status Reports — In-Progress Reviews 	<ul style="list-style-type: none"> — Director of JEO, Director of DISA, DASD(IM) — Comptroller
		<ul style="list-style-type: none"> — Input to Budget Execution Reviews 	<ul style="list-style-type: none"> — Director CIM
		<ul style="list-style-type: none"> — Monthly Status Reviews 	

INTEGRATE CROSS-DIRECTORATE ACTIVITIES

Planning and Integration (XT)



Directorate Goals Supported

1. Define and implement a unified strategy that promotes cross-directorate projects and interaction as a way of doing business.

Activity Objectives	Targets
— Initiate and complete a pilot project which validates the integrated CIM approach to Information Management.	— Start Project, 10/1/93 — Complete Project, 7/30/94 — Provide Lessons Learned Report, 8/30/94
— Define and implement a strategy for promoting cross-directorate interaction.	— Complete Strategy by 11/15/93
— Provide CIM customers with an integrated picture of how all CIM products and services contribute to the overall CIM capability.	— Version 1.0, 11/15/93 — Version 2.0, 6/15/94
— Initiate a project to prototype the automated distribution of CIM policies, procedures, and guidance.	— Strategy and Plan, 10/15/93 — Prototype, 3/15/94
— Develop an integrated repository capability.	— Integration Rationale, 10/15/93 — Complete Strategy and Implementation Plan by 12/5/93

Facilitate and coordinate the integration of CIM products and services and promote cross-directorate interaction as a way of doing business. Focus on providing an integrated set of capabilities based on customer requirements. Ensure that program managers understand and have chosen the appropriate trade-offs between functional requirements, technical requirements, and resources.

Constraints

- Existing Organizational Culture
- Existing Policy

INTEGRATE CROSS-DIRECTORATE ACTIVITIES

Planning and Integration (XT)



Required Resources	
Funding	Staff
\$258,000	5

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Supports All Integration Focus Areas	— Identify, Select, Promote, and Perform Integration Activities

Inputs from Affiliates		Products & Services to Consumers	
— Assistance in Developing Integrated Capabilities	— CIM Directorates	— Integrated Guide to CIM Products and Services	— DoD IM Community
— IM Direction and Guidance	— DASD(IM)	— Integrated Repository	
		— Roadmap for Integrating CIM Products and Services	— Director CIM, DASD(IM)
		— Integration Reviews and Recommendations	

PROVIDE ADMINISTRATIVE SUPPORT

Planning and Integration (XT)



Directorate Goals Supported

5. Define and implement a Center-wide process that reduces the resources and time required to prepare and coordinate acquisition packages.
6. Define and implement a Center-wide process that reduces the resources and time required to obtain administrative services.

Provide administrative support to CIM. Manage civilian and military personnel, facilities, logistics, security, contracting, supply, and office automation.

Activity Objectives	Targets
— Improve the timeliness in which requests are processed.	— Process all requests within two days.
— Reduce the resources required to process requests.	— Streamline all CIM administrative procedures.
— Increase customer satisfaction.	— Reduce complaints concerning administrative services by 50%.
Constraints <ul style="list-style-type: none">— Existing DISA Administrative Procedures— Existing Policy	

PROVIDE ADMINISTRATIVE SUPPORT

Planning and Integration (XT)



Required Resources	
Funding	Staff
\$2,536,000	17

Support of CIM Integration Focus Areas	
Focus Areas	Corresponding Support
— Supports All Integration Focus Areas	— Provides the Administrative Support Required by the Integration Activities

Inputs	from	Affiliates	Products & Services	to	Consumers
<ul style="list-style-type: none"> — Assistance in Satisfying Directorate Requirements — Requests for Administrative Support 		<ul style="list-style-type: none"> — DISA Support Activities — Center Directorates 	<ul style="list-style-type: none"> — Processing Personnel Actions — Processing Training Actions — Processing Acquisition Packages — Providing Supplies — Providing Office Automation Capabilities 		<ul style="list-style-type: none"> — Center Directorate

PROVIDE ON-SITE SUPPORT

Planning and Integration (XT)



Directorate Goals Supported

1. Define and implement a unified strategy that promotes cross-directorate projects and interaction as a way of doing business.

Provide direct, on-site support to functional managers and DoD IM initiatives.

Activity Objectives	Targets
— Assist functional managers in performing functional process improvement, data standardization, and system migration.	— Increase IM improvement efforts in DoD functional areas.
— Support I-CASE contract administration.	— Delivery of I-CASE tools to DoD Central Design Activities.
— Support OASD(C3I) offices.	— Provide all required support.
Constraints — Available Resources	

PROVIDE ON-SITE SUPPORT

Planning and Integration (XT)



Required Resources	
Funding	Staff
\$0	93

Support of CIM-Wide Integration Focus Areas	
Focus Areas	Corresponding Support
— Supports All Integration Focus Areas	— Provides Feedback from Customers Applying CIM Practices.

Inputs	from	Affiliates	Products & Services	to	Consumers
— Resource Guidance and Direction		— DASD(IM)	— Functional Area Support		— OSD Principal Staff Assistants
			— I-CASE PMO Support		— OASD(C3I) AND I-CASE PMO
			— OASD(C3I) Support		— OASD(C3I)



CENTER FOR ARCHITECTURE

VISION STATEMENT

Center for Architecture



In order to provide quality services at minimum costs, the Center for Architecture will promote interoperability of Department of Defense Information Systems. We support this vision with three focus areas:

- 1) Guide Strategic Planning, Pilot Programs, prototypes, and investment strategies;
- 2) Coordinate efforts between “communities of interest” via architecture harmonization, rationalization, and alignment; and
- 3) Ensure interoperability from a technical perspective through architectural guidance, assessment, tools, and a Defense-wide collaborative, prescriptive architecture and associated roadmap.

MISSION STATEMENT

Center for Architecture



As Executive Agent for the Office of the Assistant Secretary of Defense for Command, Control, Communications, and Intelligence, develops policies, guidance, and methodologies that produce consistent information system architectures for the Department of Defense. Assesses architecture efforts to measure and ensure consistency across the Department. Develops a collaborative, prescriptive Defense Information Infrastructure (DII) architecture to ensure technically interoperable system designs; drive down the cost of providing Information Management services to DoD by aligning and coordinating efforts; and guide strategic planning for investment strategies, technology insertion, Pilot Programs, and critical standards involvement. Coordinate pilot programs and technology insertion initiatives to investigate critically needed architectural features and/or services (e.g., Integrated Management Centers, and Distributed Computing Environment technology.)

CENTER GOALS

Center for Architecture



1. Develop, promote, and evolve the Technical Architecture Framework for Information Management (TAFIM) and DoD Human Computer Interface Style Guide (HCISG) for producing consistent information system architectures for the Department.
2. Ensure interoperability of information systems based on the Defense Information Infrastructure (DII) Architecture.
3. Streamline the Department's infrastructure implementation and support efforts by aligning DII sub-architectures and programs within the DII Architecture scope, identifying overlaps and missing initiatives.
4. Guide corporate infrastructure planning and investment decisions, focusing on high Return-on-Investment (ROI) options to minimize both acquisition and operational costs. Identify and Prioritize technology insertion initiatives, pilot programs, and critical standards evolution as input to the DII Roadmap.
5. Explore advanced technologies that support movement of DoD to the Defense Information Infrastructure Architecture, in accordance with the architectural guidance (TAFIM and DoD HCISG).

GOAL SUPPORTING ACTIVITIES

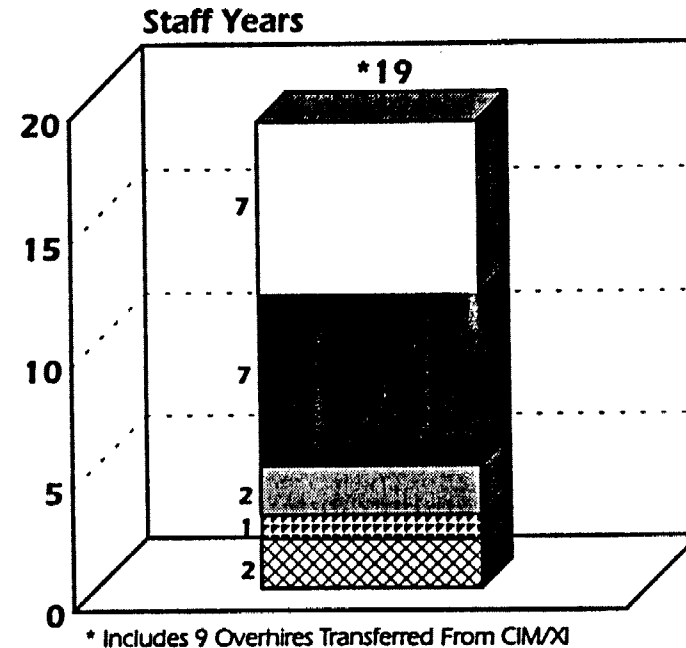
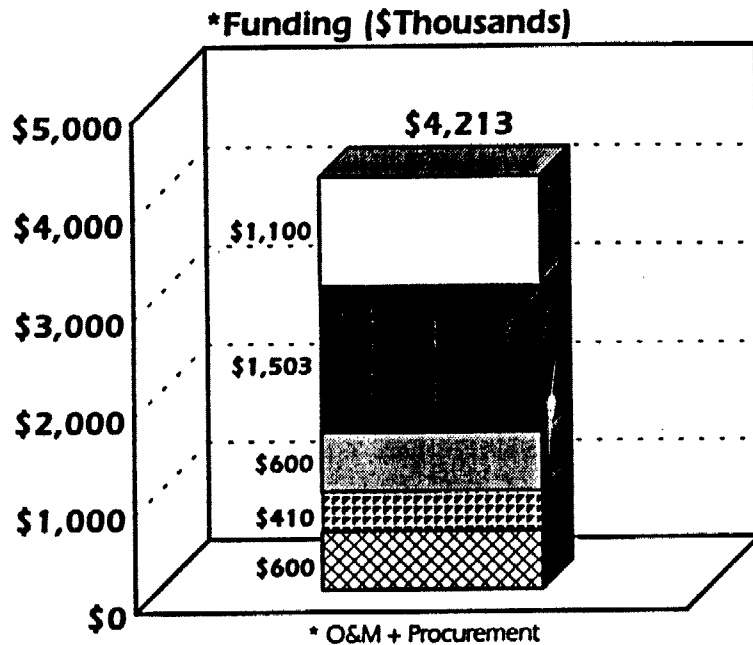
Center for Architecture



- **Coordinate and evolve the TAFIM and the DoD HCISG. Expand architectural guidance effort to include training programs needed by TAFIM/HCISG implementors.**
- **Develop a collaborative, prescriptive DII Architecture and associated Architecture Facility.**
- **Align and model DII sub-architectures and programs within DII scope to identify overlaps and missing initiatives.**
- **Recommend and prioritize technology insertion initiatives, pilot programs, investment strategies, and standards evolution efforts as input to the DII Roadmap.**
- **Develop and coordinate Integrated Management Center (IMC) Architecture and Concept of Operations.**

RESOURCE REQUIREMENTS

Center for Architecture



Center for Architecture Activities

- Technical Architecture Guidance Evolution
- Ensure DII Interoperability
- DII Sub-Architecture and Program Alignment
- DII Technology Insertion
- IMC Architecture and Concept of Operations

TECHNICAL ARCHITECTURE GUIDANCE EVOLUTION

Center for Architecture



Center Goals Supported

1. Develop, promote, and evolve the Technical Architecture Framework for Information Management (TAFIM) and DoD Human Computer Interface Style Guide (HCISG) for producing consistent information system architectures for the Department.

Activity Objectives	Targets
— Complete TAFIM volumes 1, 2, and 3—then volumes 4 and 5.	— 12/30/93 and 1/31/94, respectively.
— Publish DoD HCISG, Version 3.1.	— 4/30/94
— Support design of Graphical User Interfaces by program offices.	— Continue FY94 level of effort at six program assessments.
— Conduct updates of TAFIM documentation.	— Semiannual updates beginning in April, 1994.
— Develop and validate TAFIM/HCI training program.	— 6/30/94

Constraints

Support all DoD information management activities by providing a framework for producing consistent information architectures. Assess and configuration manage procedures for developing architectures. Continue evolution of the DoD Human Computer Interface Style Guide (HCISG) by incorporating both lessons-learned from internal DoD program implementation and industry input. Assist program offices by applying the design guidance in the Style Guide to specific applications. Evaluate advances in industry with particular emphasis on ergonomics and uniform Application Programming Interfaces (APIs). Provide training and tools to develop TAFIM/HCISG-compliant architectures.

TECHNICAL ARCHITECTURE GUIDANCE EVOLUTION

Center for Architecture



Required Resources	
Funding	Staff Yrs
\$1,100,000	7

Support of Integration Focus Areas	
Focus Areas	Corresponding Support
— Architecture	— Architecture Guidance
— IM Process	— Architecture Methodology

Inputs	from	Affiliates	Products & Services	to	Consumers
— Existing Policy and Guidance	—	All DoD Components	— Architecture Policy and Guidance	—	All DoD Information System Developers and Users
— Recommended Changes to Policy and Guidance	—	All DoD Components, Industry, and Other Government Activities	— Architecture Policy and Guidance Updates		
— Laws, Regulations, etc.	—	Congress, OSD	— DoD HCISG	—	Information System Developers in DoD Components/Industry
— Design Guidance	—	Industry	— TAFIM/HCI Training	—	DoD Component Information System Architects, System Engineers, and Software Developers.
— TAFIM and DoD HCISG	—	DISA, JIEO, and CFA			

ENSURE DII INTEROPERABILITY

Center for Architecture



Center Goals Supported

2. Ensure interoperability of information systems based on the Defense Information Infrastructure (DII) Architecture.

Develop a collaborative, prescriptive DII Architecture and subcomponent to give DoD Information System Program Managers and System Engineers a common vision, frame of reference for available enterprise services, and technical options that take advantage of those enterprise services. Develop Architecture Facility/Workbench to develop, disseminate, align, and assess architecture efforts.

Activity Objectives	Targets
— A collaborative, prescriptive DII Architecture, supported by all DoD Components.	— First version FY94, 2nd Quarter; updated every six months. (First version will include MILDEPs. Second version will add DoD Agencies.)
— An Architecture Facility/Workbench (develop, disseminate, align, and assess architecture efforts).	— First version FY94, 3rd Quarter; upgrades every four months. (First version will tie together architecture development tools. Second version will add alignment/linkage capabilities. Third version will add dissemination features. Fourth version will introduce an assessment capability.)
Constraints	

ENSURE DII INTEROPERABILITY

Center for Architecture



Required Resources	
Funding	Staff Yrs
\$1,503,000	7

Support of Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Process	— Collaborative, Prescriptive DII Architecture

Inputs from Affiliates		Products & Services to Consumers	
— Mission Requirements and Current Baseline	— DoD Components and O&M Community	— Collaborative, prescriptive DII Architecture and Subcomponents	— All DoD Components, Developing (e.g Corporate Planners, Systems Engineers, Software Developers, Operations Community, Customer Service Representatives, and OT&E Community) or Using Information Systems
— POM Funding/Schedule Constraints	— DoD Components and Comptroller Community		
— Transition Strategies to Meet Shifting Mission Goals	— DoD Components, Strategic Planners, and Development Community		
— Preferred DoD Component Approaches	— DoD Components and Technical and Strategic Planning Communities		
— Types of Available, Interoperable Technology	— Industry	— Business Mission Area Architecture	— Business Community Developing or Using Information Systems

DII SUB-ARCHITECTURE & PROGRAM ALIGNMENT

Center for Architecture



Center Goals Supported

3. Streamline the Department's infrastructure implementation and support efforts by aligning DII sub-architectures and programs within the DII Architecture scope, identifying overlaps and missing initiatives.

Activity Objectives	Targets
— Harmonize/Rationalize existing architecture programs.	— Link MILDEP and CINC architecture efforts in Version 1 by 2/28/94 and then link them to DoD Agency efforts in Version 2 by 8/31/94.
— Align existing programs within DII Architecture scope.	— Identify two major areas of overlapping responsibilities by 3/31/94. Identify two most critical missing program efforts needed to implement DII by 6/30/94.
Constraints	

Harmonize/Rationalize architecture efforts to reduce future integration problems between communities of interest (e.g., Service/Agency; Intelligence/Command & Control/Mission Support; Functional communities). Align Service and Agency programs within the DII Architecture Scope to identify overlapping efforts (consolidate where appropriate) and identify areas not addressed sufficiently (recommend chartering acquisition PMs if necessary). Model various DII Architecture aspects to help determine what changes will bring about the highest ROI while providing cost effective, high quality, interoperable service.

DII SUB-ARCHITECTURE & PROGRAM ALIGNMENT

Center for Architecture



Required Resources	
Funding	Staff Yrs
\$600,000	2

Support of Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Process	— Collaborative, Prescriptive DII Architecture

Inputs	from Affiliates	Products & Services	to Consumers
— MILDEPs/CINC Architectures	— MILDEPs, CINCs	— Linked MILDEP/CINC Architectures	— Army, Navy, Air Force, Marines Developing (e.g., Strategic Planners, System Engineers, Software Developers, Operations Community, Customer Service Representatives, and OT&E Community) or Using Information Systems
— TAFIM, HCI Style Guide	— CFA		
— MILDEP/CINC Architectures	— MILDEPs/CINCs		
— DoD Agency Architectures	— DoD Agencies		
— DII Architecture and Taxonomy	— CFA		
— Program Element List	— IPAD		
— Program Element Descriptions	— DITPRO, DISAMO		

DII TECHNOLOGY INSERTION

Center for Architecture



Center Goals Supported

4. Guide corporate infrastructure planning and investment decisions, focusing on high Return-on-Investment (ROI) options to minimize both acquisition and operational costs. Identify and Prioritize technology insertion initiatives, pilot programs, and critical standards evolution as input to the DII Roadmap.

Activity Objectives

- Identify need for Pilot Programs.
- Identify need for Technology Insertion Initiatives.

Targets

- Identify top two candidate Pilot Programs based on ROI and critically needed capabilities/features/services by 12/31/93.
- Identify top three technology insertion initiatives based on ROI, transition plans, and critically needed capabilities/features/services by 3/31/94.

Constraints

Recommend and coordinate technology insertion initiatives and advanced technology demonstrations to investigate technologies with high potential ROI to DoD for reducing operating costs involved in providing information management systems. Recommend pilot programs as proof-of-principle when new services are needed and/or new ways of providing the service are more cost effective than current implementations. Impact investment strategies by identifying alternative approaches to meet shifting mission goals and constraints (e.g. funds, risks, and schedules). Recommend participation in critical standards efforts to ensure the market will be able to provide standard interfaces for critically needed functions (e.g., Distributed Management Environment standards are needed to minimize staffing costs).

DII TECHNOLOGY INSERTION

Center for Architecture



Required Resources	
Funding	Staff Yrs
\$410,000	1

Support of Integration Focus Areas	
Focus Areas	Corresponding Support
— Technology Insertion	— Prototype Distributed Computing Environment Technologies

Inputs from Affiliates		Products & Services to Consumers	
— OSE Transition Plans	— CFA DISO, DoD Component IS O&M Staffs	— List of High ROI Technology Insertion Initiatives	— IPAD, CFE
— New Technology	— Industry Consortia	— DCE Technology Assessment	— CFE, CFI&I, DoD Component Information System Program Managers and Developers
— DCE Technology Studies	— Industry Consortia and DoD Components		
— DCE Technology Shortfalls	— DoD Component Information System Developers	— List of Critically Needed Standards (e.g., DME)	— IPAD, CFS
— DII Architecture; Changing Constraint on Funds, Staffing, and/or Mission; Selected Investment Strategies	— CFA, IPAD	— Investment Strategy Recommendations	— IPAD, DITPRO, DISAMO, DISO, CFE, CIM, CFI&I, CTE

IMC ARCHITECTURE & CONCEPT OF OPERATIONS

Center for Architecture



Center Goals Supported

5. Explore advanced technologies that support movement of DoD to the Defense Information Infrastructure Architecture, in accordance with the architectural guidance (TAFIM and DoD HCISG).

Activity Objectives	Targets
— Develop/coordinate IMC Concept of Operations.	— 5/31/94
— Develop/Coordinate IMC Architecture.	— 7/31/94
Constraints	

The Integrated Management Center (IMC) effort will establish a high-level structure to coordinate, integrate and plan the management of communications and computing resources for the DII. The IMC effort will establish an integrated set of common tools, data elements, and procedures. IMC capabilities will be driven by user requirements, common operational concepts, and defined levels of responsibilities. The IMC will serve as the single point of contact for network and systems management activities. The various Level I, II, III, and Joint Task Force System/Network Management Centers will use the portions of this common capability necessary for the scope of their responsibilities.

IMC ARCHITECTURE & CONCEPT OF OPERATIONS

Center for Architecture



Required Resources		Support of Integration Focus Areas	
Funding	Staff Yrs	Focus Areas	Corresponding Support
\$600,000	2	— Pilot Project	— System and Network Management for Levels I, II, III, and Joint Task Forces

Inputs from Affiliates		Products & Services to Consumers	
<ul style="list-style-type: none"> — "To-Be" Process and Data Models, Report on Industry Practices — Report on Current Procedures, Report on Industry Practices — "To-Be" Process and Data Models, Report on Industry Practices — Phased "To-Be" Process Model, List of Tool Suite Capabilities 	— IMC Working Group	<ul style="list-style-type: none"> — S/NMC (IMC) Standards Based Architecture 	— IMC System Engineers, DISO Managers, Budget Staff
		<ul style="list-style-type: none"> — IMC Concept of Operations (Including Levels I, II, III, and JTF S/NMC CONOPS) 	— IMC O&M Staffs; Level I, II, III, and JTF S/NMC O&M Staffs
		<ul style="list-style-type: none"> — IMC Transition Plan 	— IMC System Engineers, Operational Staff, and Budget Staff
<ul style="list-style-type: none"> — Full Tool Site List and Costs, Number of Sites to Upgrade, Tools Needed Per Site, Available Budget, Site Activity Peaks/Lulls for Scheduling Upgrades 	— IMC Working Group and IMC Site O&M Staffs		



CENTER FOR STANDARDS

VISION STATEMENT

Center for Standards



The Center for Standards provides the necessary OSE-based Information Technology (IT) standards for program managers, systems engineers, architects, and warfighters to ensure interoperable, compatible, and integrated DoD information systems. The Center provides the necessary guidance, implementation procedures, and automated tools to support this user community when and where needed. It is through the application of these available standards products and support capabilities that the DoD achieves the reduction of system costs for new technology while fully supporting the warfighter's critical information needs.

MISSION STATEMENT

Center for Standards



As DoD's Executive Agent for centralized management of IT standards, the Center orchestrates the development, adoption, specification, certification, and enforcement of information processing, information transfer, information content, and information format standards within DoD. Influences the development and adoption by industry and our Allies of standards supporting DoD requirements. Provides DoD guidance on what profile of standards to use based on DoD's migration strategy, system requirements, DoD open systems architecture, and desired capabilities. Assists the acquisition program manager in applying this guidance to new systems and development of the profile of standards applicable to each new system.

CENTER GOALS

Center for Standards



1. Support the Assistant Secretary of Defense (C3I) in his role as the Department's Senior Information Management official.
2. Focus Information Technology (IT) standards efforts on reducing costs for DoD information services as a priority effort.
3. Support IT standards efforts to meet warfighter information services' needs.
4. Manage the overall DoD IT Standards Process and related activities. Streamline and structure the process to achieve coherence, consistency, visibility, leverage, and control to speed standards availability and reduce costs.
5. Establish and provide access to a single DoD focal point for IT standards and related information.
6. Develop and implement a life cycle management methodology for IT standards that describes management policies, decision points, responsibilities, and procedures to be followed.

CENTER GOALS

Center for Standards



7. Provide the IT standards user community with an effective configuration management (CM) policy and appropriate implementing procedures.
8. Facilitate the use of IT standards by specifying the appropriate standards to be used in DoD information systems.
9. Promote the development, adoption, and use of national and international non-Government commercial standards whenever practical.
10. Integrate the IT standards efforts pursued under the Defense Standardization Program (DSP) and coordinate these with other standards efforts external to the DSP (e.g., those of NIST and NCS.)
11. Establish testing, evaluation, and certification procedures to ensure that specified IT standards and standards profiles selected for use meet the specified technical and policy requirements and are consistent with DoD IT standards objectives.
12. Establish enforcement mechanisms for IT standards usage in DoD acquisitions by identifying, developing, and incorporating them into DoD acquisition directives. This will include the establishment of a compliance monitoring capability as a part of the IT standards management structure.

GOAL SUPPORTING ACTIVITIES

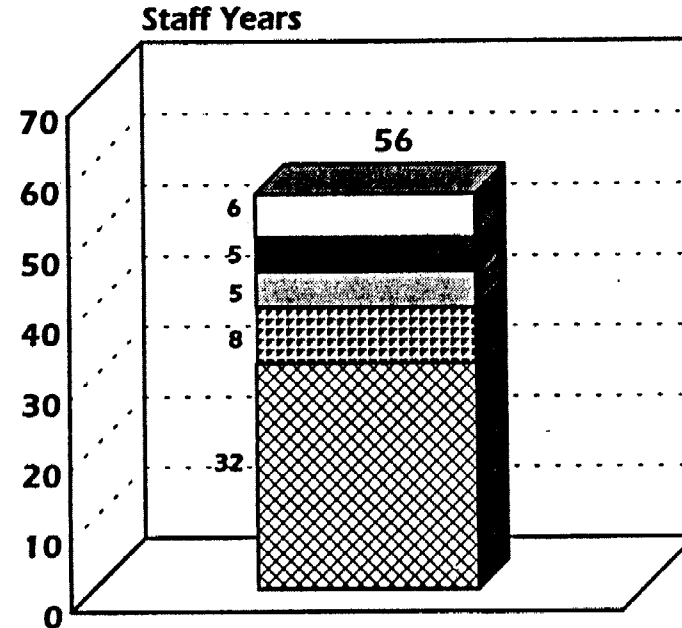
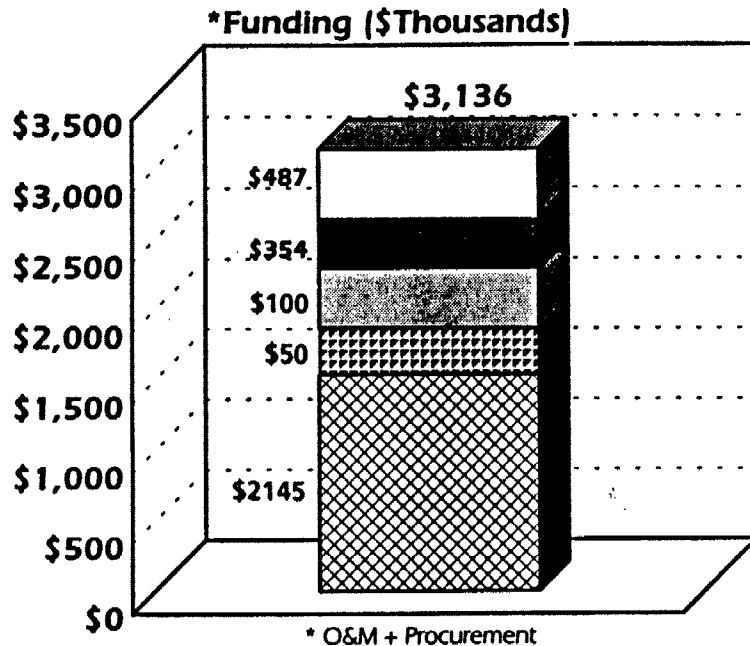
Center for Standards



- **Coordinate DoD Information Technology Standards Activities**
- **Support DoD Information Systems Security Standards Needs**
- **Support the Maintenance and Enhancement of DoD Secondary Imagery Dissemination**
- **Support and Enhance the Warfighter Common Information Needs and Capabilities**
- **Support Migration to an Open Systems Environment (OSE)**

RESOURCE REQUIREMENTS

Center for Standards



Center for
Standards
Activities

- Coordinate DoD Information Technology Standards Activities
- Support DoD Information Systems Security Standards Needs
- Support the Maintenance and Enhancement of DoD Secondary Imagery Dissemination
- Support and Enhance the Warfighter Common Information Needs and Capabilities
- Support Migration to an Open Systems Environment

DoD IT STANDARDS STANDARDS COORDINATION

Center for Standards



Center Goals Supported

1. Support the ASD(C3I)...
2. Focus IT standards efforts on reducing costs...
4. Manage the overall DoD IT Standards Process...
5. Establish and provide a single DoD IT standards focal point...
9. Promote the development, adoption, and use of non-Government commercial standards...
10. Integrate the IT standards efforts pursued under the Defense Standardization Program...

Coordinate DoD Information Technology (IT) standards activities as the DoD executive agent and the lead standardization activity for several key information technology standard areas. Carry out the IT Standards Executive Agency role by departments and industry to achieve program completeness, coherence, consistency visibility, leverage, and control to speed standards availability critical to information needs and reduce costs.

Activity Objectives

- Conduct DoD IT standards program planning for FY95.

- Provide technical and administrative support to the standards coordinating committee chairman.

Targets

- Increase non-DISA projects in FY95 Program Plan by 25% by 9/30/94.
- Publish Draft FY95 IT Standards Program Plan by 8/31/94.
- Publish Final FY95 IT Standards Program Plan by 9/30/94.

- Support six (6) SCC meetings during FY94.
- Publish status report within one week following each 1994 meeting in February, April, June, August, and October.

DoD IT STANDARDS STANDARDS COORDINATION

Center for Standards



Activity Objectives	Targets
— Provide coordinated and focused DoD representation at national and international standards bodies to meet the needs of DoD.	— Influence/ adopt IT standards for DoD. Provide interim report on progress by 8/31/94.
— Coordinate and integrate information processing standards activities across the DoD.	— Correlate AF & Navy MCCR projects with IPSC projects by 7/31/94. — Integrate effort in revised IPSC Plan by 9/30/94.
— Support additional automated applications to expand interaction with program managers and DoD representatives to standards bodies (including the Standards Coordinating Committee.	— Apply IT standards products to DISN by 9/30/94. — On-line standards planning and information on DoD representatives by 11/1/93.
Constraints	
— Funding Remains Same — Contracts and Delivery Orders Remain in Place	

DOD IT STANDARDS COORDINATION

Center for Standards



Required Resources	
Funding	\$487,000
Staff Yrs	6

Support of Integration Focus Areas		
Focus Areas		Corresponding Support
— Information Management Process		— IT Standards Management Plan
		— IT Standards and Profile Analysis/Certification
— Automated, Interactive Distribution of Procedures and Guidance		— IT Standards Integrated Bulletin Board
		— IT Standards Automated Support System

Inputs from Affiliates			Products & Services to Consumers		
<ul style="list-style-type: none"> — Standards Activities Plans — IT Standards Requirements — Defense Standardization Program (DSP) Projects 	<ul style="list-style-type: none"> — Proposed Positions on IT Standards Issues in Non-Governmental Standards Bodies — Requests for IT Standards Guidance 	<ul style="list-style-type: none"> — CINCs, Services, and Agencies — DOD Representatives — Services, Agencies, and DOD Representatives 	<ul style="list-style-type: none"> — Standards and Profiles — Standards Guidance — Certified IT Standards Profiles — FY95 IT Standards Program Plan 	<ul style="list-style-type: none"> — PMs, Acquisition Authorities, CINCs, Services, and Agencies — Automated PM Support Tools and Guidance on Standards Use — Coordination of DOD Positions on IT Standards Issues to Non-Government Standards Bodies 	<ul style="list-style-type: none"> — PMs, Acquisition Authorities — DOD Representatives

DoD INFORMATION SECURITY STANDARDS

Center for Standards



Center Goals Supported

2. Focus IT standards efforts on reducing costs...

Support DoD information security standards needs to permit effective and secure information dissemination.

Activity Objectives	Targets
<ul style="list-style-type: none">— Develop Coherent and comprehensive set of information system security standards permitting DoD implementation of effective, secure, interoperable, and affordable information systems.	<ul style="list-style-type: none">— Coordinate ongoing DoD security standards work, ensuring DoD needs are considered.— Appropriately address security standards needs identified by DISSP and other efforts in Security Standards Action Plan by 9/30/94.
<ul style="list-style-type: none">— Participate in international and national standards bodies. Introduce and gain agreement on security standards efforts in the international arena to promote the acceptance of DoD security requirements.	<ul style="list-style-type: none">— Develop a Security Standards Action Plan by 9/30/94.— Develop a DoD standards labeling Program Plan by 7/31/94.
Constraints <ul style="list-style-type: none">— Manpower— Funding	

DoD INFORMATION SECURITY STANDARDS

Center for Standards



Required Resources	
Funding	Staff Yrs
\$354,000	5

Support of Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Process	— Standards Coordination
— Architecture	— DSGA Goal Architecture Assessment

Inputs from Affiliates		Products & Services to Consumers	
— DGSA Goal Architecture	— DISA, NSA, Services	— Computer Security Assessments Program Plan, Action Plan, and WG Output	— DISA (CISS), and NSA
— Labelling Requirements	— Service and Agencies		
— Labelling Current Standards Editions	— Service, Agencies, and PMs	— Standards Transition Strategy to DGSA	— DISA (CISS), NSA, and PMs
— WG Support Requirements	— Working Groups	— Transition Plan to Meet Labeling Standards Requirements	
		— Security Services Standards Updates to TAFIM and OSE/IA	— PMs, Standards Users, Systems Architects, and Engineers

SECONDARY IMAGERY DISSEMINATION STANDARDS

Center for Standards



Center Goals Supported

1. Support the ASD(C3I)...
8. Facilitate the use of IT standards...
9. Promote the development, adoption, and use of non-Government commercial standards...
12. Establish enforcement mechanisms for IT standards usage in DoD acquisitions...
7. Develop military standards only when non-Government or Federal Standards fail to meet DoD requirements.

Support the maintenance and enhancement of DoD secondary imagery dissemination standards to provide timely intelligence. Assist the DoD in providing imagery standards for formatting and transmitting digital imagery-related products among the members of the Intelligence Community and other Federal agencies.

Activity Objectives	Targets
— Validate and update, as required, the DoD Standardized Profile (DSP) for the National Imagery Transmission Format (NITF) File Transfer, Access, and Management (FTAM)/SIMPLEX draft standard	— Complete testing and update of the DSP by 9/30/94.
— Provide configuration management (CM) support, implementation support, and enhancement of the six approved NITF standards and NITF system	— Maintain and update NITF standards and NITF system handbook by certifying all NITF systems to the current standard version (NITFS version 1.1 to 2.0) by 9/30/94.
Constraints - Additional funding to be provided by the customer	
- Policy and Guidance do not Change	- Funding Remains Same
- Mission does not Change	- Contracts Remain In Place

SECONDARY IMAGERY DISSEMINATION STANDARDS

Center for Standards



Required Resources	
Funding	\$100,000
Staff Yrs	5

Support of Integration Focus Areas			
Focus Areas		Corresponding Support	
— Information Management Process		— Standards Coordination	
— Interoperability		— DSP for NITFS	
— Repositories		— Data Element Standards for DDRS	

Inputs from		Products & Services to Consumers	
<ul style="list-style-type: none"> — Changes to Existing Standards — Requirements for New Standards — Technical Comments on Proposed Changes to NITFS 		<ul style="list-style-type: none"> — DSP for FTAM Operation in NITFS — DSP for SIMPLEX operation in NITFS — CM and Implementation Support of NITFS Version 2.0 	
<ul style="list-style-type: none"> — CIO, CINCS, Agencies, and Services 		<ul style="list-style-type: none"> — DoD Functionals (including Intelligence Community) 	

WARFIGHTER COMMON INFORMATION NEEDS

Center for Standards



Center Goals Supported

3. Support IT standards efforts to meet warfighter information services' needs.
5. Establish and provide a single DoD IT standards focal point...
7. Provide the IT standards user community with an effective CM policy...
8. Facilitate the use of IT standards...
9. Promote the development, adoption, and use of non-Government commercial standards...
10. Integrate the IT standards efforts pursued under the Defense Standardization Program...
11. Establish testing, evaluation, and certification procedures...
12. Establish enforcement mechanisms for IT standards usage in DoD acquisitions...

Supports and enhances the warfighter common information needs and capabilities with information exchange standards and consistent information interfaces and the standardization of a common set of development and specification tools necessary to support the development of interoperable systems and component capabilities.

Activity Objectives

MC&G:

- Facilitate the Defense Mapping Agency standardization management process and Mapping, Charting, & Geodesy Interoperability for the Warfighter.

Targets

- Finalize Geospatial Standards Management Committee Charter by 1/31/94.
- Finalize Draft Mapping, Charting, and Geodesy Information Technology Management Plan and Configuration Management Plan by 3/31/94.
- TEMP, 6/30/94.
- Complete initial set of MCG Standards Profile (CADRE) by 9/30/94.



WARFIGHTING COMMON INFORMATION NEEDS

Center for Standards

Activity Objectives	Targets
Joint Warfighting Symbolology: <ul style="list-style-type: none"> — Facilitate the development of a uniform application of symbolology standards for depiction of battlefield and space environments in order to provide process improvement of C4I system operations and enhance the training of the Warfighter. 	<ul style="list-style-type: none"> — Finalize DoD Action Plan by 12/31/94. — Execute a plan of action to facilitate standardization of warfighting symbolology by 1/31/94. — Establish standard profiles for symbolology for DoD Program Manager use in development of C4I systems and training by 6/30/94.
Imagery & Graphics: <ul style="list-style-type: none"> — Identify and adopt commercial IT standards for DoD use. 	<ul style="list-style-type: none"> — Facilitate development of critical product data standards (e.g., STEP) by 9/30/94. — Incorporate adopted standards in TRM 8/31/94. — Facilitate development of new standards (e.g., PHIGS Plus) to meet DoD needs by 9/30/94.
Data Administration: <ul style="list-style-type: none"> — Develop C² data standards as a part of the Data Administration Program to support warfighter's information. 	<ul style="list-style-type: none"> — Provide C² interim standard data element set by 11/1/93. — Update C² Core Data Model by 1/31/94. — Integrate interim C² data standards into normal 8320 model submissions by 9/30/94.
Constraints <ul style="list-style-type: none"> - Additional funding to be provided by the customer - Manpower Decreasing - Mission Increasing - Funding Decreasing 	

WARFIGHTING COMMON INFORMATION NEEDS

Center for Standards



Required Resources	
Funding	\$50,000
Staff Yrs	8

Support of Integration Focus Areas		
Focus Areas		Corresponding Support
— Interoperability	— MC&G and Symbolology Defense Standardization Profiles	— Imagery and Graphics Standards Profiles
	— Standards Data Elements	— Repositories
— Modeling	— C2 Data Element Standards	— MC&G and Symbolology Standards Data Elements

Inputs from Affiliates		Products & Services to Consumers	
— MC&G IT Standards Requirements — Imagery and Graphics IT Standards Requirements — Technical Comments on Draft MC&G Imagery and Graphics Standards — DOD Representatives to Various Working Groups Request for IT Standards Guidance	— CINCS, Services, Agencies, and PMs	— Defense Standardization Profiles (DSP) for Imagery and Graphics — Defense Standardization Program-adopted MC&G, Symbolology, and Imagery and Graphics IT Standards	— CINCS, Services, Agencies, PMs, Systems Engineers, Architects, and Acquisition Authorities
— Proposed Positions on MC&G, Symbolology, and Imagery and Graphics, IT Standards Assessed in Non-Government and Federal Standards Bodies.	— DOD Representatives		

MIGRATION TO AN OPEN SYSTEMS ENVIRONMENT

Center for Standards



Center Goals Supported

9. Promote the development, adoption, and use of non-Government commercial standards...

Support the migration to an Open System Environment (OSE), which focuses primarily on open system automated data processing standards.

Activity Objectives	Targets
Support DoD Migration to an OSE <ul style="list-style-type: none">— Identify, promote, and develop programming language standards that support the applications services requirements for the DoD.	<ul style="list-style-type: none">— Develop a FIPS that includes a comprehensive set of standards to support future integration concerns and to support the transition of existing systems toward OOT by 9/30/94.— Publish DISA's interim policy on programming languages for use within DITSO based on analyses of current Public Law, DoD and Service/Agency policies and procedures identifying overlaps and conflicts in current guidance by 9/30/94.— Propose DoD standards guidance specifically related to programming language 1/31/94.

MIGRATION TO AN OPEN SYSTEMS ENVIRONMENT

Center for Standards



Activity Objectives	Targets
<p>Support DoD Profile Development and Services and Provide PM Support to Facilitate and Encourage the Use of Standards</p> <ul style="list-style-type: none">— Attain centrally managed standardization of information services migration to open systems.	<ul style="list-style-type: none">— Evaluate suitability/feasibility of extending existing ISO standards for operating systems and environments. Developed proposed DoD position by 9/30/94.— Develop specification for electronic forms 12/31/93..— Evaluate solutions and standards for Multimedia Distributed Data Base. Document results by 1/31/94.— Identify and define requirements for electronic commerce standards in an open systems environment. Provide results for DoD reviews by 1/31/94.— Evaluate solutions and standards for Distributed Computing Environment/ Distributed Management Environment (DCE/DME). Provide results for DoD reviews by 9/30/94.
Constraints	<ul style="list-style-type: none">— Manpower and Funding— Services and Agencies Provide Technical Support

MIGRATION TO AN OPEN SYSTEMS ENVIRONMENT

Center for Standards



Required Resources	
Funding	Staff Yrs
\$2,145,00	32

Support of Integration Focus Areas	
Focus Areas	Corresponding Support
— Information Management Process	— Standards Coordination
— Modelling	— Supporting OSE Standards Profiles
— OOT	— OOT Standards Adoption

Inputs	from	Affiliates	Products & Services	to	Consumers
— Proposals for IT Standards	—	CINCs, Services, and Agencies	— Inputs to FIPS for OOT	—	NIST
— Comments to Draft Standards Documents	—		— Technical Report on Programming Languages	—	Services and Agencies
— Requests for Guidance on IT Standards Issues	—	DoD Representatives	— DISA Interim Language Policy	—	Services, Agencies, Architects, PMs, and System Engineers
— Input to Draft NGS	—	SD-1 Coordination Group	— Standards Guidance for Programming Languages	—	
— Input to E-forms Specification	—	Industry Consortia	— Set of Standards for Multimedia Distributed Data Base	—	

MIGRATION TO AN OPEN SYSTEMS ENVIRONMENT

Center for Standards



Inputs	from	Affiliates	Products & Services to	Consumers
			<ul style="list-style-type: none">— E-Forms Specification— Technical Report of Requirements for Electronic Commerce Standards in an Open Systems Environment	<ul style="list-style-type: none">— Services, Agencies, Architects, PMs, and System Engineers



CENTER FOR TEST AND EVALUATION

VISION STATEMENT

Center for Test and Evaluation



The Center for Test and Evaluation (CFTE) promotes information management in an open systems environment by providing a comprehensive range of timely and affordable test and evaluation services to verify that information systems conform to applicable standards, meet interoperability requirements, and improve the effectiveness of DoD functional operations and the efficiency of the technology base.

MISSION STATEMENT

Center for Test and Evaluation



The Center for Test and Evaluation serves as DISA's Test and Evaluation activity. It supports the Assistant Secretary of Defense for Command, Control, Communications, and Intelligence by functioning as the Executive Agent for Information Systems Testing, the DISA Operational Test Agency, and by performing all Defense Information Systems Testing. This encompasses all standards conformance, interoperability, performance, system effectiveness and force effectiveness test and evaluation activities. The Center for Test and Evaluation maintains a core of experienced personnel to support program managers during all phases of testing required to realize the OASD(C3I) directed transition of military information systems to an open systems environment.

CENTER GOALS

Center for Test and Evaluation



1. Establish and maintain an Open Systems Environment testing capability to support acquisition of multi-vendor information system products which conform to the applicable standards listed in the Technical Architecture Framework for Information Management.
2. Provide an open systems testing methodology and infrastructure for interoperability testing of conformant standards based products.
3. Centrally lead, manage, integrate, and coordinate DoD information systems testing efforts to support the acquisition of information systems which conform to applicable standards and meet interoperability requirements.

GOAL SUPPORTING ACTIVITIES

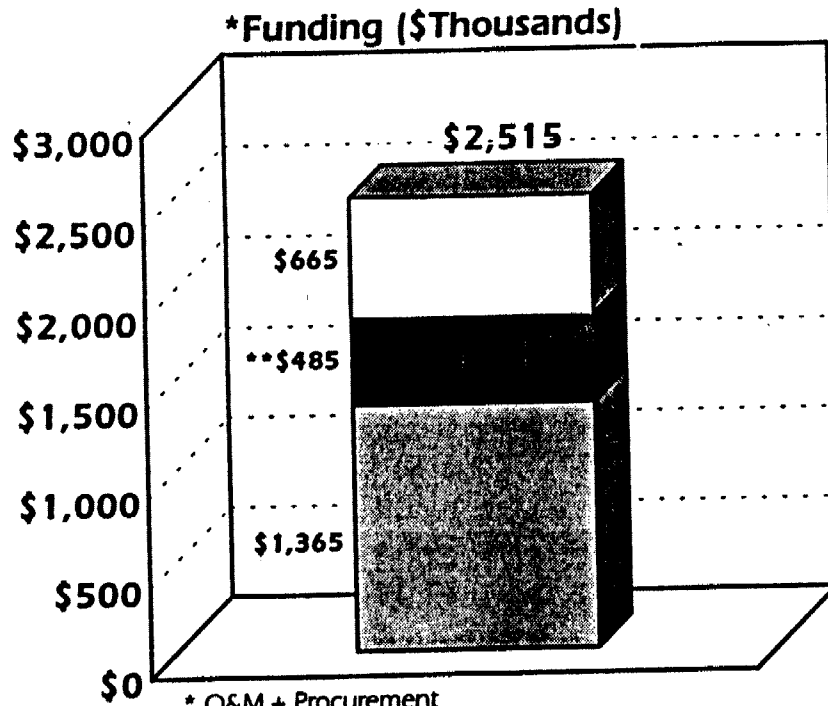
Center for Test and Evaluation

- **Executive Agent for Information Systems Testing**
- **Open Systems Interoperability Testing Program**
- **OSE Conformance Testing Program**



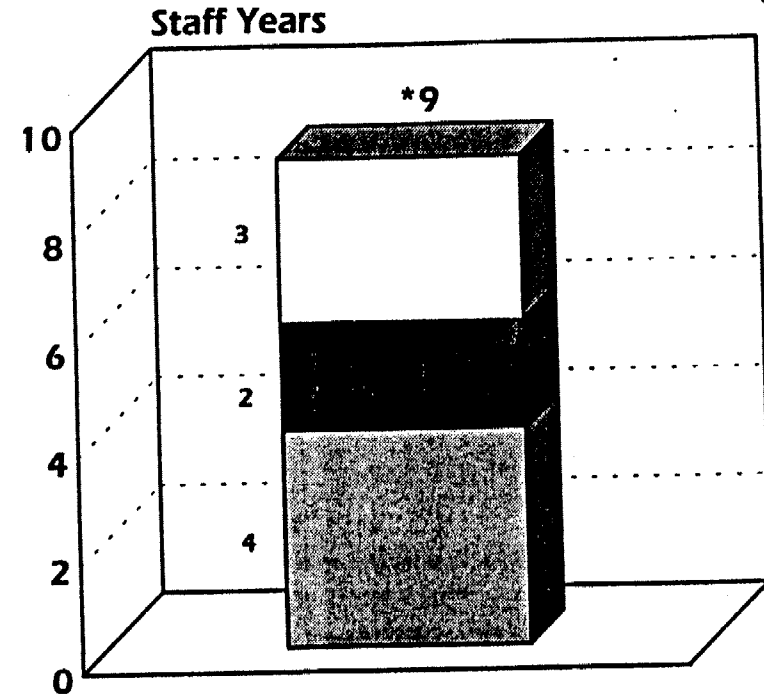
RESOURCE REQUIREMENTS

Center for Test and Evaluation






* O&M + Procurement

** Includes \$185K for Facilities/Test Tool Upgrades



* Three (3) Staff Years Not Provided Under DISA/CIM Allocation

Center for Test and Evaluation Activities

-  Executive Agent for Information Systems Testing
-  Open Systems Interoperability Testing Program
-  OSE Conformance Testing Program

EXECUTIVE AGENT FOR INFORMATION SYSTEMS TESTING

Center for Test and Evaluation



Center Goal Supported

3. Centrally lead, manage, integrate, and coordinate DoD information systems testing efforts to support the acquisition of information systems which conform to applicable standards and meet interoperability requirements.

Activity Objectives	Targets
— Establish and manage a DoD Information Systems Testing Program to harmonize DoD policy and establish procedures and testing guidelines for conduct of standards conformance and interoperability testing.	— Review existing DoD policy and provide input into future versions of DoD Directives/Instructions, develop validation, conformance, and interoperability testing guides.
— Establish and maintain a database of test facilities which perform standards validation, conformance, and interoperability testing in support of the TRM standards identified in TAFIM.	— Survey existing testing laboratories, maintain a database of those facilities, determine which TRM standards require additional testing capabilities, and recommend which agency could best fill the needed voids.
— Establish and maintain a database of product registers for use by Program Managers of information systems.	— Provide product register database by 8/15/94.

As a follow-on to the FY93 CIM tasking, the major thrust of the FY94 effort is geared toward providing oversight to all standards conformance and interoperability testing required to support the acquisition and upgrade of information systems which conform to applicable standards and meet interoperability requirements. These efforts focus on the Technical Reference Model standards identified in the Technical Architecture Framework for Information Management.

EXECUTIVE AGENT FOR INFORMATION SYSTEMS TESTING

Center for Test and Evaluation



Activity Objectives	Targets
<ul style="list-style-type: none">— Determine if existing standards conformance and interoperability testing methodologies can be applied to the TRM standards.	<ul style="list-style-type: none">— Examine methodology used by existing standards conformance and interoperability testing facilities and review and evaluate ISO 9646.
<ul style="list-style-type: none">— Support the acquisition of Information Systems which meet interoperability requirements.	<ul style="list-style-type: none">— Provide support to program managers throughout the life-cycle of an information system by providing detailed reviews of all requirements documents (MNS, ORDs, RFPs, TEMP, TEP) to allow Program Managers to write contracts which ensure interoperability requirements are addressed early in the acquisition cycle.
<ul style="list-style-type: none">— Support the modification/upgrade of information systems undergoing major hardware/software changes.	<ul style="list-style-type: none">— Provide TEMP/TEP review and recertification.
Constraints	
<ul style="list-style-type: none">— Availability of Funding to Support TDY to Attend Various Meetings/Conferences and Present Briefings to Get the Required Visibility for the Entire Program	

EXECUTIVE AGENT FOR INFORMATION SYSTEMS TESTING

Center for Test and Evaluation



Required Resources	
Funding	Staff Yrs
\$665,000	3

Support of Integration Focus Areas	
Focus Areas	Corresponding Support
— Interoperability	— Standards Conformance

Inputs	from	Affiliates	Products & Services	to	Consumers
— Funding		— OASD(C3I)-IM-IT	— Information Standards Program Chart		— OASD(C3I)
— Policies/SOPs		— DoD, CINCS, and Federal Agencies	— Input to DoD Policy		— DoD, CINCS, and Federal Agencies
— Testing Methodologies, Product Register Information		— Testing Labs	— Recommended Testing Methodology		— Testing Labs
— Requirements Documents		— Program Managers	— Product Register Information, Input to RFPs		— Program Managers

OPEN SYSTEMS INTEROPERABILITY TESTING PROGRAM

Center for Test and Evaluation



Program Goal Supported

2. Provide an open systems testing methodology and infrastructure for interoperability testing of conformant standards based products.

Activity Objectives	Targets
— Expand capabilities for interoperability testing of OSE applications.	— Develop interoperability test tools for support of DoD standards and profiles.
— Implement central registers for DoD Interoperable products.	— Public access for end users, vendors, and acquisition authorities to databases of interoperable products.
— Harmonization of interoperability standards efforts.	— Attend workshops, working group forums, and participate on standards committees pertaining to standards testing.
Constraints	
— Availability of Funds for Consistent Level of Test Facility and Personnel Support	

As a follow-on and complement to the FY93 CIM tasking related to standards conformance testing, interoperability testing verifies the ability of conformant products to interoperate. This program establishes an Open Systems Interoperability Laboratory (OSILAB) that supports standards-based interoperability testing of DoD standards and profiles. This activity is comprised of the functions for testing oversight, administration, policy, and support to acquisition authorities.

OPEN SYSTEMS INTEROPERABILITY TESTING PROGRAM

Center for Test and Evaluation



Required Resources

Funding	Staff Yrs
\$692,000	3
\$185,000	0
Facilities/Test Tool Upgrades	

Support of Integration Focus Areas

Focus Areas	Corresponding Support
— Interoperability	— Open System Standards

Inputs from Affiliates		Products & Services to Consumers	
— Funding	— OASD(C3I)-IM-IT	— Interoperability Testing	— DoD S/As, Federal Agencies, Commercial Vendors
— Policies	— CIM, CFS, NIST, SPAG	— Product Registration	— DoD S/As and End Users, Federal Agencies, Commercial Vendors
— Testing Methodology	— SPAG Process to Support Interoperability (PSI), NIST	— Policy/Test Harmonization	— DoD, CFS, NIST, SPAG, International Standards Bodies
— Testing Requirements	— DoD OSE Efforts and Acquisition Authorities		

OSE CONFORMANCE TESTING PROGRAM

Center for Test and Evaluation



Program Goal Supported

1. Establish and maintain an Open Systems Environment testing capability to support acquisition of multi-vendor information system products which conform to the applicable standards listed in the Technical Architecture Framework for Information Management.

JITC is designated the agent for the U.S. GOSIP Testing Program, specifically to administer conformance testing in coordination with NIST. JITC expects to expand its role to include additional GOSIP version 3 protocol requirements and conformance testing of other applicable associated standards of the TRM which are required to support distributed information systems. Priority will be given to Network Management, EDI, RDA, ODA/ODIF/ODL, CGM, SGML, SQL, Security, X. Windows, IGES, and API. As additional capacity, funding and manpower resources become available, additional areas of the TRM will be addressed.

Activity Objectives

— Improve cognizance of standards groups activities and plans for conformance testing of OSE standards and facilitate OSE conformance testing infrastructure development.

— Improve availability of Abstract Test Suites (ATS) and Protocol Implementation Conformance Statement Proforma (PICS) for use by OSE conformance testing laboratories.

Targets

— Attend OIW and DTMP Workshop meetings to learn of government/commercial testing activities and provide expert resources to facilitate conformance testing infrastructure establishment.

— Research availability of ATSS and acquire for evaluation of suitability to the U.S. OSE Conformance Testing Program. ATS providing adequate standards coverage will be registered, along with supporting JITC developed addenda which identify defects relative to the U.S. Identify unavailable ATS and plan for development or acquisition.

OSE CONFORMANCE TESTING PROGRAM

Center for Test and Evaluation



Activity Objectives	Targets
— Ensure availability of adequate calibrated Means of Test (MOT) for OSE conformance testing laboratories.	— Acquire adequate reference implementations of OSE applications for use in MOT assessments. Extend JITC MOT assessment test plan to include new OSE MOT specific criteria and develop detailed OSE application expertise for conduct of MOT assessment and calibration of the MOT.
— Expand consultation services to DoD procurement seeking acquisition of products and consultation to vendors seeking placement of products on the approved register of conformance tested products.	— Provide timely and high quality advise and counsel to services/agencies seeking OSE product procurement and to vendors seeking placement of products on the OSE compliant register of products.
— Ensure availability of adequate OSE conformance testing laboratories.	— Provide technical expertise to the OSE conformance laboratory assessment process and providing conformance testing capacity for overflow requirements and specialized DoD procurement, where military extensions or security concerns cannot be satisfied by commercial or other government facilities.
— Provide oversight and quality assurance of OSE conformance testing laboratories and registration of qualified conformance tested products.	— Review of conformance test reports from qualified conformance testing laboratories for conformance to testing standards, configuration control, product portability, and adequate quality assurance of OSE conformance testing laboratories.
— Improve and expand central register of OSE compliant products.	— Provide modifications to current GOSIP product register to capture additional information required by specific OSE applications relevant to procurement authorities.

OSE CONFORMANCE TESTING PROGRAM

Center for Test and Evaluation



Constraints

- OSE applications conformance testing frequently requires testing in conjunction with a conformant underlying stack or associated GOSIP application. Additional funding must be acquired to retain the capability for registration of conformant underlying products or associated products in order to provide capability for conformance testing of OSE applications.
- Availability of TDY to attend various meetings/conferences and present briefings to acquire portions of the required infrastructure so as not to reinvent available capabilities.
- Availability of additional funding as required to seed development of infrastructure that is identified as not currently in the public domain.
- Availability of qualified personnel for training to provide added OSE conformance infrastructure and services.

OSE CONFORMANCE TESTING PROGRAM

Center for Test and Evaluation



Required Resources	
Funding	Staff Yrs
\$1,365,000	4

Support of Integration Focus Areas	
Focus Areas	Corresponding Support
— Interoperability	— Standards

Inputs	from	Affiliates	Products & Services	to	Consumers
— Funding		— OASD(C3I)-IM-IT	— MOT Assessment Capability		— MOT Vendors and Conformance Labs
— ATS		— ATS Developers	— OSE Conformant Products Registration		— OASD, Service/Agency Procurement, MOT, and Product Developers
— COTS MOT for Assessment & Calibration		— MOT Vendors	— OSE Product Procurement Consulting		— DoD Procurement Authorities, Product & MOT Developers
— Reference Implementations		— Product Developers	— OSE Conformance Testing Administration and Policy		— DoD Procurement Authorities, Conformance Labs, MOT and Product Developers